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August 12, 2015

Ubiquiti Networks
1250 S. Grove Ave., Suite 100
Barrington, IL 60010

Dear Alexandros Pavlos,

Enclosed is the EMC Wireless test report for compliance testing of the Ubiquiti Networks, AF-2X as tested to the requirements of Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Part 15 Subpart C for Intentional Radiators.

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,
MET LABORATORIES, INC.

Jennifer Warnell
Documentation Department

Reference: (\Ubiquiti Networks\EMC85002-FCC247 Rev. 2)

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Electromagnetic Compatibility Criteria Test Report

for the

**Ubiquiti Networks
AF-2X**

Tested under
the FCC Certification Rules
contained in
15.247 Subpart C for Intentional Radiators

MET Report: EMC85002-FCC247 Rev. 2

August 12, 2015

Prepared For:

**Ubiquiti Networks
1250 S. Grove Ave., Suite 100
Barrington, IL 60010**

Prepared By:
MET Laboratories, Inc.
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Baltimore, MD 21230

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Ubiquiti Networks
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the FCC Certification Rules
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15.247 Subpart C for Intentional Radiators



Djed Mouada, Project Engineer
Electromagnetic Compatibility Lab



Jennifer Warnell
Documentation Department

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules Part 15.247 under normal use and maintenance.



Asad Bajwa,
Director, Electromagnetic Compatibility Lab

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	August 7, 2015	Initial Issue.
1	August 7, 2015	Model number correction.
2	August 12, 2015	Editorial corrections.

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List of Terms and Abbreviations

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
<i>d</i>	Measurement Distance
dB	Decibels
dB μ A	Decibels above one microamp
dB μ V	Decibels above one microvolt
dB μ A/m	Decibels above one microamp per meter
dB μ V/m	Decibels above one microvolt per meter
DC	Direct Current
E	Electric Field
DSL	Digital Subscriber Line
ESD	Electrostatic Discharge
EUT	Equipment Under Test
<i>f</i>	Frequency
FCC	Federal Communications Commission
GRP	Ground Reference Plane
H	Magnetic Field
HCP	Horizontal Coupling Plane
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	kilohertz
kPa	kilopascal
kV	kilovolt
LISN	Line Impedance Stabilization Network
MHz	Megahertz
μ H	microhenry
μ	microfarad
μ s	microseconds
NEBS	Network Equipment-Building System
PRF	Pulse Repetition Frequency
RF	Radio Frequency
RMS	Root-Mean-Square
TWT	Traveling Wave Tube
V/m	Volts per meter
VCP	Vertical Coupling Plane

I. Executive Summary

A. Purpose of Test

An EMC evaluation was performed to determine compliance of the Ubiquiti Networks AF-2X, with the requirements of Part 15, §15.247. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with §2.1033, the following data is presented in support of the Certification of the AF-2X. Ubiquiti Networks should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the AF-2X, has been **permanently** discontinued.

B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, §15.247, in accordance with Ubiquiti Networks, purchase order number US100847. All tests were conducted using measurement procedure ANSI C63.4-2003.

FCC Reference 47 CFR Part 15.247:2005	Description	Compliance
Title 47 of the CFR, Part 15 §15.203	Antenna Requirement	Compliant
Title 47 of the CFR, Part 15 §15.207(a)	Conducted Emission Limits	Compliant
Title 47 of the CFR, Part 15 §15.247(a)(2)	6dB Occupied Bandwidth	Compliant
Title 47 of the CFR, Part 15 §15.247(b)	Peak Power Output	Compliant
Title 47 of the CFR, Part 15 §15.247(d); §15.209; §15.205	Radiated Spurious Emissions Requirements	Compliant
Title 47 of the CFR, Part 15 §15.247(d)	RF Conducted Spurious Emissions Requirements	Compliant
Title 47 of the CFR, Part 15 §15.247(d)	RF Conducted Band Edge	Compliant
Title 47 of the CFR, Part 15; §15.247(e)	Peak Power Spectral Density	Compliant
Title 47 of the CFR, Part 15 §15.247(i)	Maximum Permissible Exposure (MPE)	Compliant

Table 1. Executive Summary of EMC Part 15.247 Compliance Testing

II. Equipment Configuration

A. Overview

MET Laboratories, Inc. was contracted by Ubiquiti Networks to perform testing on the AF-2X, under Ubiquiti Networks' purchase order number US100847.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Ubiquiti Networks, AF-2X.

The results obtained relate only to the item(s) tested.

Model(s) Tested:	AF-2X		
Model(s) Covered:	AF-2X		
EUT Specifications:	Primary Power: 120 VAC, 60 Hz		
	FCC ID: SWX-AF2X		
	Type of Modulations:	OFDM	
	Equipment Code:	DTS	
	Peak RF Output Power:	29.92 dBm (6 dBi antenna) 23.995 dBm (24 dBi antenna)	
	EUT Frequency Ranges:	2402 MHz-2479MHz (3.5MHz BW) 2403 MHz-2477MHz (5 MHz BW) 2404 MHz-2479MHz (7 MHz BW) 2405 MHz-2479MHz (10 MHz BW) 2407 MHz-2479MHz (14 MHz BW) 2410 MHz-2479MHz (20 MHz BW) 2414 MHz-2479MHz (28 MHz BW) 2415 MHz-2479MHz (30 MHz BW) 2420 MHz-2479MHz (40 MHz BW)	
	Analysis:	The results obtained relate only to the item(s) tested.	
Environmental Test Conditions:	Temperature: 15-35° C		
	Relative Humidity: 30-60%		
	Barometric Pressure: 860-1060 mbar		
Evaluated by:	Djed Mouada		
Report Date(s):	August 12, 2015		

Table 2. EUT Summary Table

B. References

CFR 47, Part 15, Subpart C	Federal Communication Commission, Code of Federal Regulations, Title 47, Part 15: General Rules and Regulations, Allocation, Assignment, and Use of Radio Frequencies
ANSI C63.4:2003	Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical And Electronic Equipment in the Range of 9 kHz to 40 GHz
ISO/IEC 17025:2005	General Requirements for the Competence of Testing and Calibration Laboratories
ANSI C63.10-2009	American National Standard for Testing Unlicensed Wireless Devices

Table 3. References

C. Test Site

All testing was performed at MET Laboratories, Inc., 914 W. Patapsco Ave., Baltimore, MD 21230. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a 3 meter semi-anechoic chamber (equivalent to an Open Area Test Site). In accordance with §2.948(a)(3), a complete site description is contained at MET Laboratories.

D. Description of Test Sample

The Ubiquiti Networks AF-2X, Equipment Under Test (EUT), is a 2400MHz - 2483.5MHz, Point-to-Point radio that uses OFDM MIMO Uncorrelated Cross-Polarized communication with a 50MHz/40MHz/30MHz/28MHz/20MHz/10MHz/ 7MHz/5MHz/3.5MHz bandwidth configuration. The EUT would be used outdoors and pole mounted. It is powered from a PoE adapter. The reverse-polarized connectorized has the ability when professionally installed by a user with cross-polarized antennas. This is the only matter that would be able to create a functional link to work.

E. Ports and Cabling Information

Ref. ID	Port Name on EUT	Cable Description	Qty.	Length (m)	Shielded (Y/N)	Termination Point
1	Management Port	RJ45 Ethernet	1	2	Yes	--
2	Data Port	RJ45 Ethernet	1	2	Yes	--
3	RP sma CH0	RF coax	1	2	Yes	--
4	RP sma CH1	RF coax	1	2	Yes	--

Table 4. Ports and Cabling Information

F. Mode of Operation

Using internal test modes only for testing purposes the radio is set up in a continuous transmit mode. This allows for frequency, power, and channel bandwidth to be adjusted for measurement purposes. Scripts and specific command line commands are used to manipulate the radio in test mode.

G. Method of Monitoring EUT Operation

1. A blinking green "Data" LED will indicate error-free data is being transferred on the test cable.
2. Any other LED status besides the blinking green LED (i.e. LED light off, etc) will indicate error-free data is not being transferred on the test cable.

H. Modifications

a) Modifications to EUT

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

I. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Ubiquiti Networks upon completion of testing.

III. Electromagnetic Compatibility Criteria for Intentional Radiators

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.203 Antenna Requirement

Test Requirement: § 15.203: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The structure and application of the EUT were analyzed to determine compliance with Section 15.203 of the Rules. Section 15.203 states that the subject device must meet at least one of the following criteria:

- a.) Antenna must be permanently attached to the unit.
- b.) Antenna must use a unique type of connector to attach to the EUT.
- c.) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

Results: The EUT as tested is compliant with the criteria of §15.203. The antenna is professional installed.

Test Engineer(s): Djed Mouada

Test Date(s): 07/13/15

Gain	Type	Model	Manufacturer
6	Panel	AIR-ANT2465P-R	Cisco
24	Dish	-	UBIQUITI

Table 5. Antenna List

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.207(a) Conducted Emissions Limits

Test Requirement(s): § 15.207 (a): For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Σ line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency range (MHz)	§ 15.207(a), Conducted Limit (dB μ V)	
	Quasi-Peak	Average
* 0.15- 0.45	66 - 56	56 - 46
0.45 - 0.5	56	46
0.5 - 30	60	50

Table 6. Conducted Limits for Intentional Radiators from FCC Part 15 § 15.207(a)

Test Procedure: The EUT was placed on a 0.8 m-high wooden table inside a screen room. The EUT was situated such that the back of the EUT was 0.4 m from one wall of the vertical ground plane, and the remaining sides of the EUT were no closer than 0.8 m from any other conductive surface. The EUT was powered from a 50 Ω /50 μ H Line Impedance Stabilization Network (LISN). The EMC receiver scanned the frequency range from 150 kHz to 30 MHz. Conducted Emissions measurements were made in accordance with *ANSI C63.4-2003 "Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz"*. The measurements were performed over the frequency range of 0.15 MHz to 30 MHz using a 50 Ω /50 μ H LISN as the input transducer to an EMC/field intensity meter. For the purpose of this testing, the transmitter was turned on. Scans were performed with the transmitter on.

Test Results: The EUT was compliant with this requirement. Measured emissions were below applicable limits.

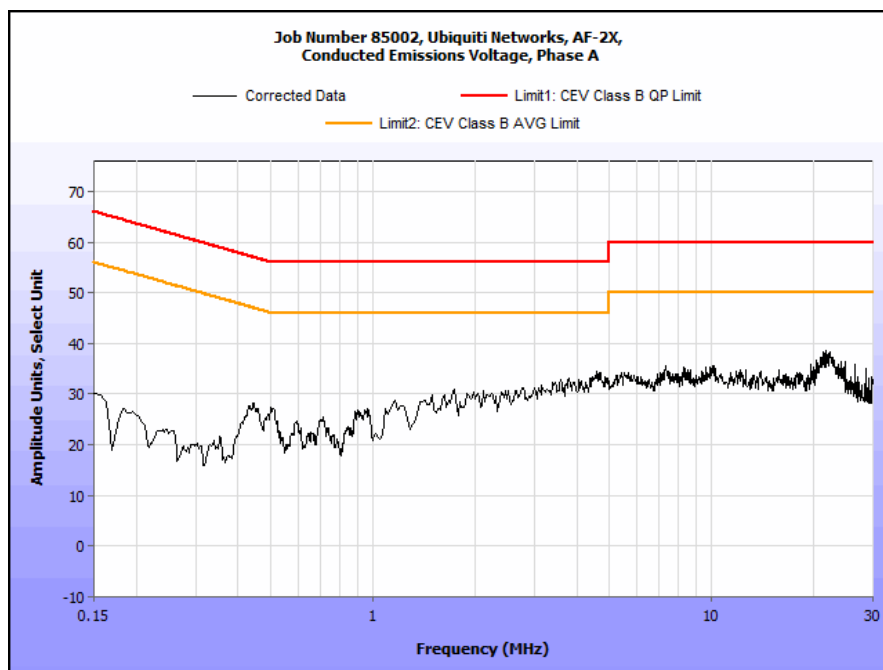
Test Engineer(s): Djed Mouada

Test Date(s): 06/12/15

15.207(a) Conducted Emissions Test Results

Frequency (MHz)	Uncorrected Meter Reading (dBμV) QP	Cable Loss (dB)	Corrected Measurement (dBμV) QP	Limit (dBμV) QP	Margin (dB) QP	Uncorrected Meter Reading (dBμV) Avg.	Cable Loss (dB)	Corrected Measurement (dBμV) AVG	Limit (dBμV) AVG	Margin (dB) AVG
0.151	47.92	0	47.92	65.95	-18.03	35.54	0	35.54	55.95	-20.41
0.397	41.83	0	41.83	57.92	-16.09	29.23	0	29.23	47.92	-18.69
0.539	37.77	0	37.77	56	-18.23	25.85	0	25.85	46	-20.15
8.23	35.21	0	35.21	60	-24.79	22.2	0	22.2	50	-27.8
11.54	33.52	0	33.52	60	-26.48	23.6	0	23.6	50	-26.4
23.45	35.92	0	35.92	60	-24.08	25.13	0	25.13	50	-24.87

Table 7. Conducted Emissions, 15.207(a), Phase Line, Test Results

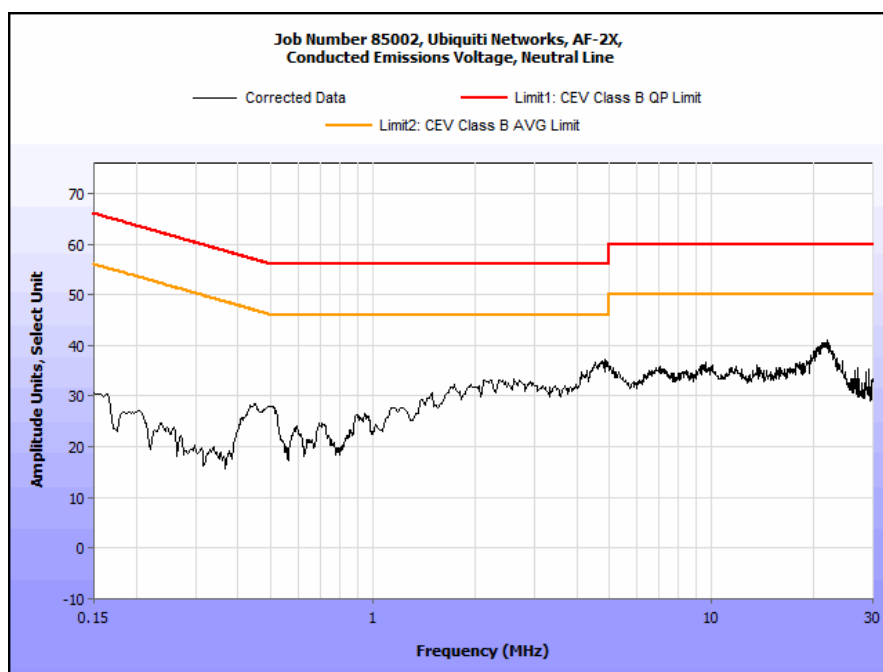


Plot 1. Conducted Emissions, 15.207(a), Phase Line

15.207(a) Conducted Emissions Test Results

Frequency (MHz)	Uncorrected Meter Reading (dBμV) QP	Cable Loss (dB)	Corrected Measurement (dBμV) QP	Limit (dBμV) QP	Margin (dB) QP	Uncorrected Meter Reading (dBμV) Avg.	Cable Loss (dB)	Corrected Measurement (dBμV) AVG	Limit (dBμV) AVG	Margin (dB) AVG
0.16	45.4	0	45.4	65.46	-20.06	37.2	0	37.2	55.46	-18.26
0.392	39.21	0	39.21	58.02	-18.81	25.31	0	25.31	48.02	-22.71
0.628	37.25	0	37.25	56	-18.75	22.98	0	22.98	46	-23.02
4.231	34.73	0	34.73	56	-21.27	21.23	0	21.23	46	-24.77
16.27	30.54	0	30.54	60	-29.46	25.71	0	25.71	50	-24.29
22.95	33.54	0	33.54	60	-26.46	24.66	0	24.66	50	-25.34

Table 8. Conducted Emissions, 15.207(a), Neutral Line, Test Results



Plot 2. Conducted Emissions, 15.207(a), Neutral Line

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(a)(2) 6 dB Bandwidth

Test Requirements: § 15.247(a)(2): Operation under the provisions of this section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

For systems using digital modulation techniques, the EUT may operate in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

Test Procedure: The transmitter was on and transmitting at the highest output power. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using a RBW approximately 1% of the total emission bandwidth, VBW > RBW. The 6 dB Bandwidth was measured and recorded. The measurements were performed on the low, mid and high channels.

Test Results The EUT was compliant with § 15.247 (a)(2).

The 6 dB Bandwidth was determined from the plots on the following pages.

Test Engineer(s): Djed Mouada

Test Date(s): 06/18/15



Figure 1. Block Diagram, Occupied Bandwidth Test Setup

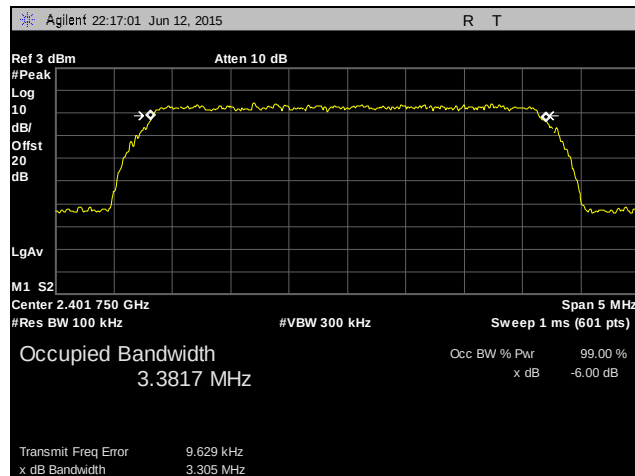
Occupied Bandwidth Test Results

	Carrier Channel	Measured 6 dB Bandwidth (MHz)
3.5 MHz Chain 0	Low	3.305
	Mid	3.332
	High	3.325
3.5 MHz Chain 1	Low	3.342
	Mid	3.323
	High	3.332
5 MHz Chain 0	Low	4.723
	Mid	4.731
	High	4.726
5 MHz Chain 1	Low	4.782
	Mid	4.766
	High	4.740
7 MHz Chain 0	Low	6.633
	Mid	6.608
	High	6.592
7 MHz Chain 1	Low	6.684
	Mid	6.643
	High	6.653
10 MHz Chain 0	Low	9.453
	Mid	9.487
	High	9.453
10 MHz Chain 1	Low	9.521
	Mid	9.520
	High	9.485
14 MHz Chain 0	Low	13.262
	Mid	13.236
	High	13.288
14 MHz Chain 1	Low	13.349
	Mid	13.358
	High	13.347
20 MHz Chain 0	Low	18.887
	Mid	18.887
	High	18.881
20 MHz Chain 1	Low	18.962
	Mid	18.979
	High	18.974
28 MHz Chain 0	Low	26.439
	Mid	26.464
	High	26.415
28 MHz Chain 1	Low	26.507
	Mid	26.834
	High	26.399
30 MHz Chain 0	Low	28.540
	Mid	28.351
	High	28.328
30 MHz Chain 1	Low	28.457
	Mid	28.414
	High	28.531

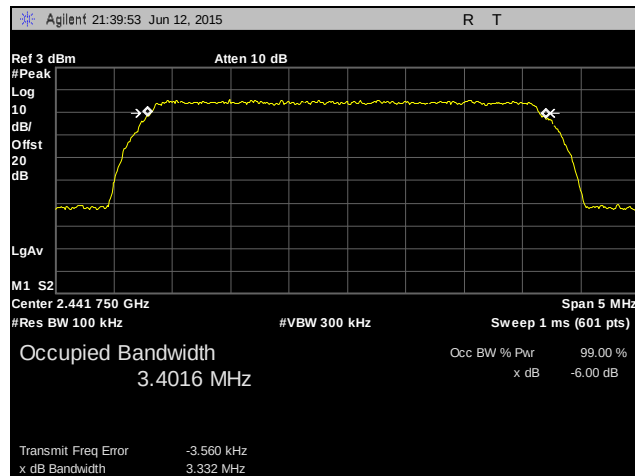
40 MHz Chain 0	Low	37.727
	Mid	37.886
	High	37.762
40 MHz Chain 1	Low	37.935
	Mid	37.848
	High	37.862

Table 9. 6 dB Occupied Bandwidth, Test Results

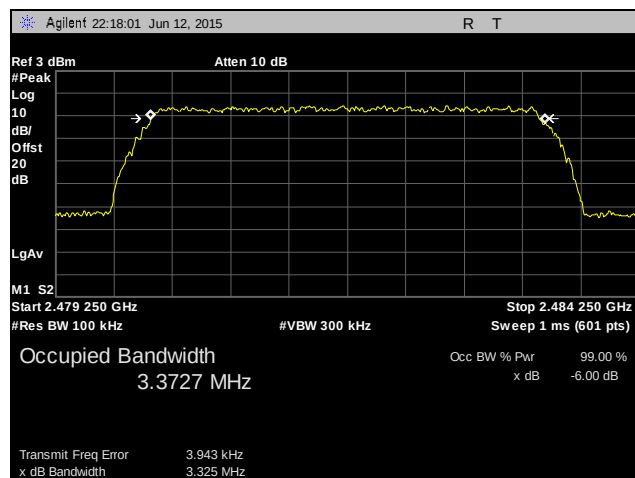
6 dB Occupied Bandwidth Test Results, 3.5 MHz, Chain 0



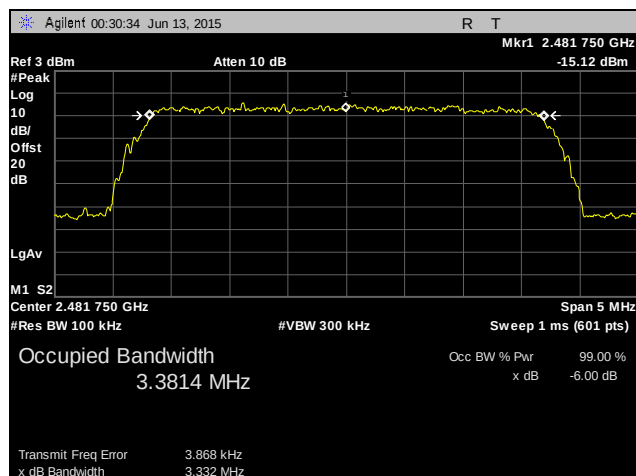
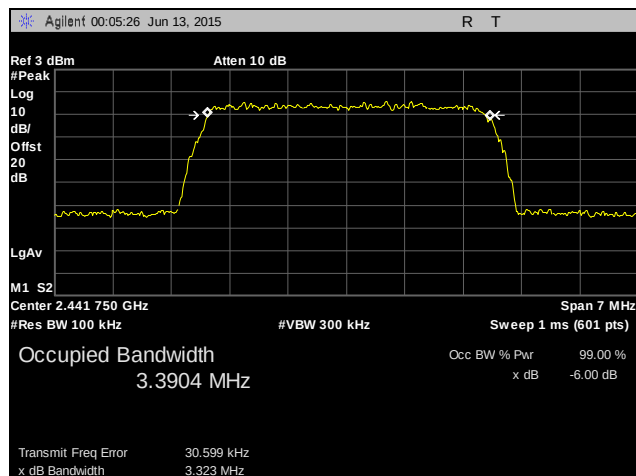
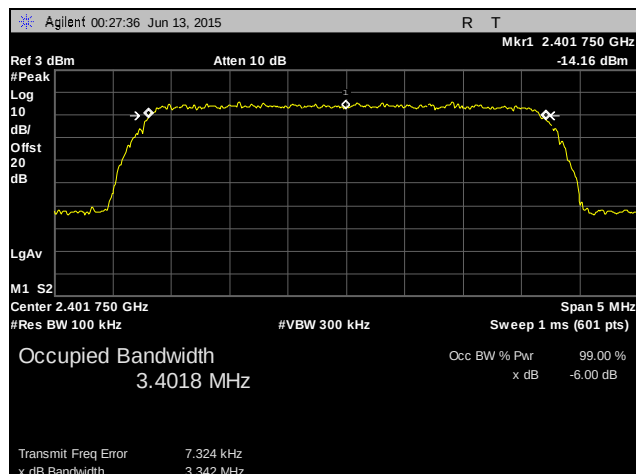
Plot 3. 6 dB Occupied Bandwidth, Low Channel, 3.5 MHz, Chain 0



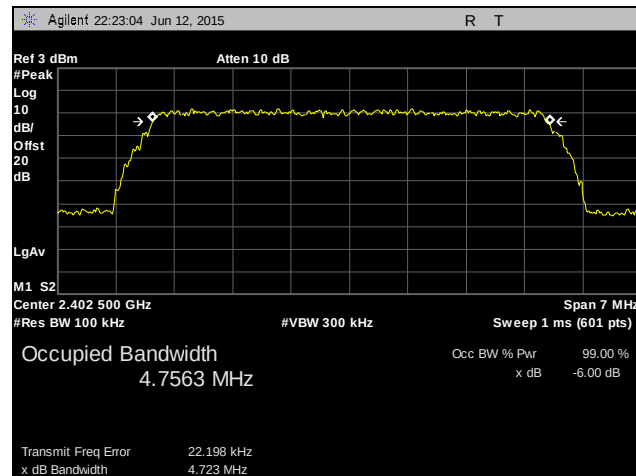
Plot 4. 6 dB Occupied Bandwidth, Mid Channel, 3.5 MHz, Chain 0



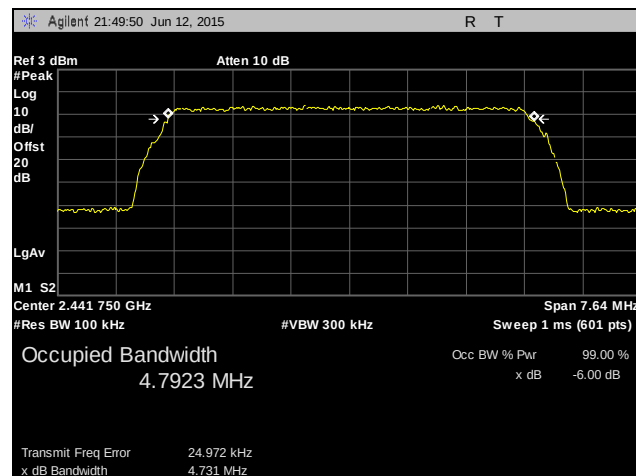
Plot 5. 6 dB Occupied Bandwidth, High Channel, 3.5 MHz, Chain 0



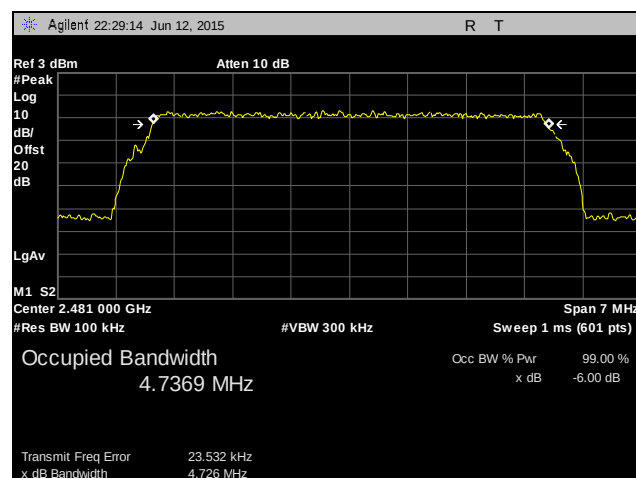
6 dB Occupied Bandwidth Test Results, 5 MHz, Chain 0



Plot 9. 6 dB Occupied Bandwidth, Low Channel, 5 MHz, Chain 0

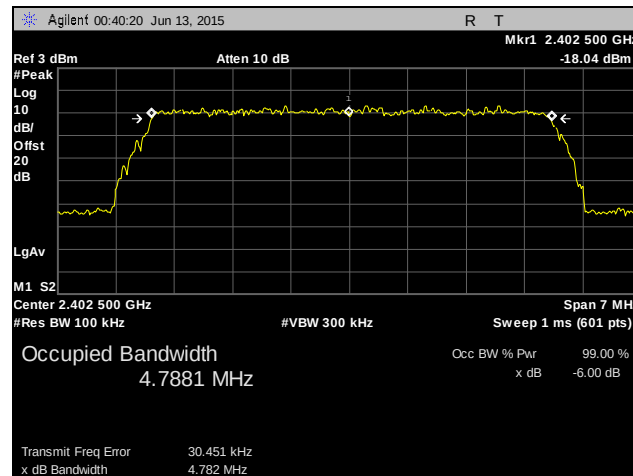


Plot 10. 6 dB Occupied Bandwidth, Mid Channel, 5 MHz, Chain 0

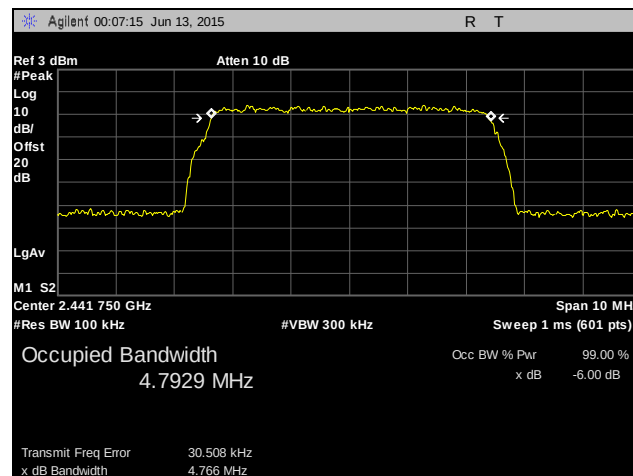


Plot 11. 6 dB Occupied Bandwidth, High Channel, 5 MHz, Chain 0

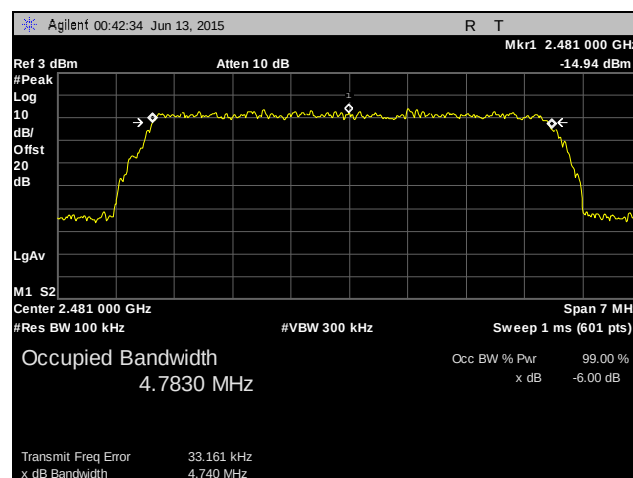
6 dB Occupied Bandwidth Test Results, 5 MHz, Chain 1



Plot 12. 6 dB Occupied Bandwidth, Low Channel, 5 MHz, Chain 1

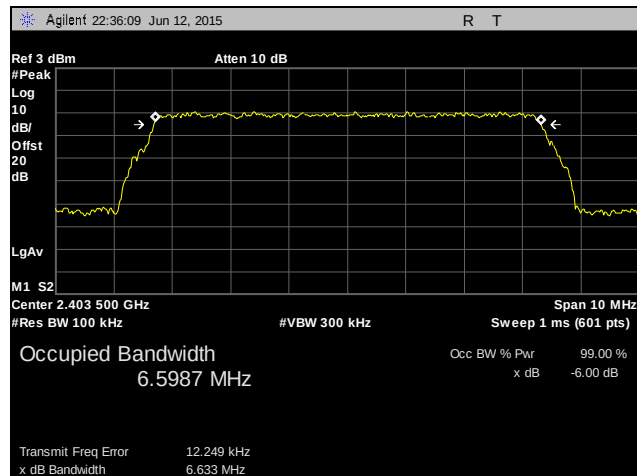


Plot 13. 6 dB Occupied Bandwidth, Mid Channel, 5 MHz, Chain 1

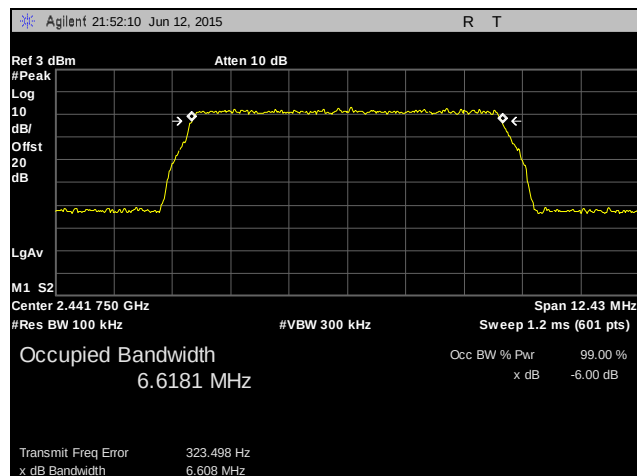


Plot 14. 6 dB Occupied Bandwidth, High Channel, 5 MHz, Chain 1

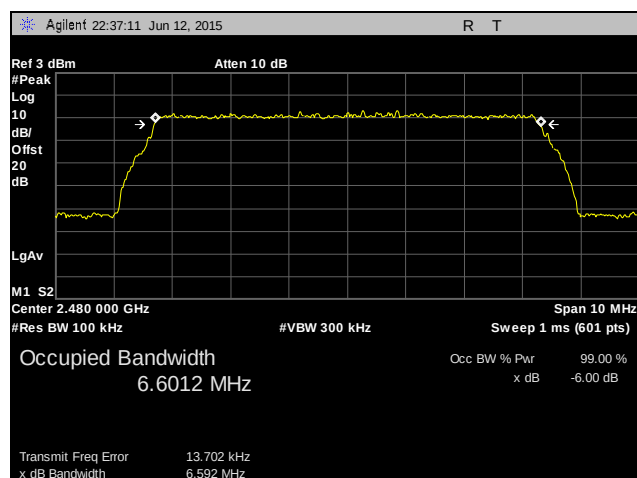
6 dB Occupied Bandwidth Test Results, 7 MHz, Chain 0



Plot 15. 6 dB Occupied Bandwidth, Low Channel, 7 MHz, Chain 0

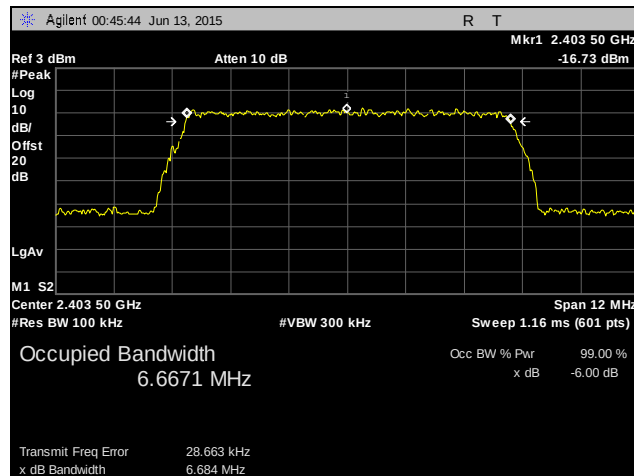


Plot 16. 6 dB Occupied Bandwidth, Mid Channel, 7 MHz, Chain 0

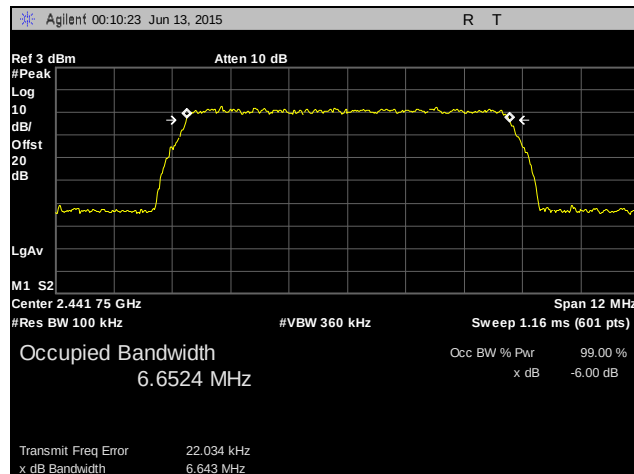


Plot 17. 6 dB Occupied Bandwidth, High Channel, 7 MHz, Chain 0

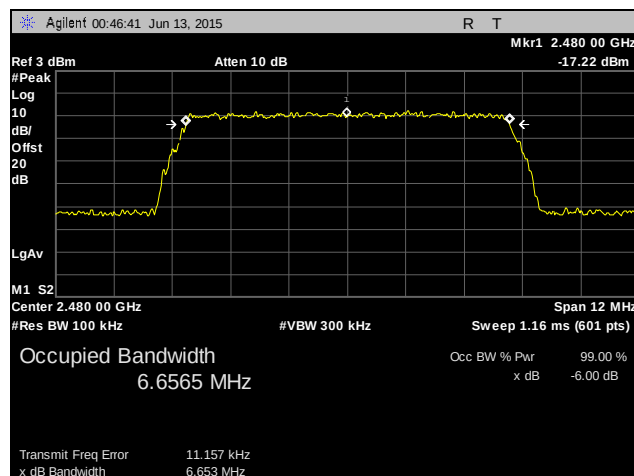
6 dB Occupied Bandwidth Test Results, 7 MHz, Chain 1



Plot 18. 6 dB Occupied Bandwidth, Low Channel, 7 MHz, Chain 1

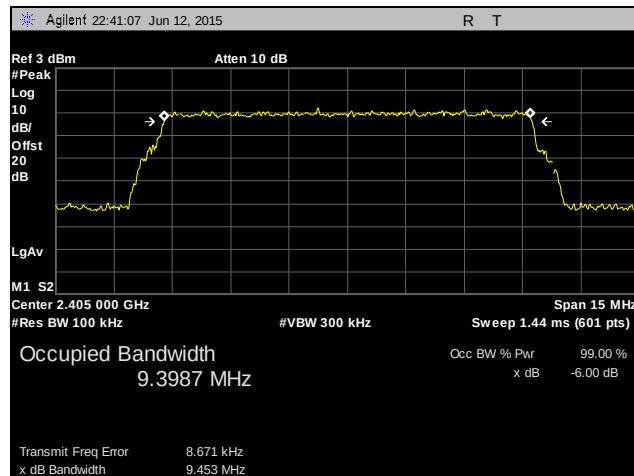


Plot 19. 6 dB Occupied Bandwidth, Mid Channel, 7 MHz, Chain 1

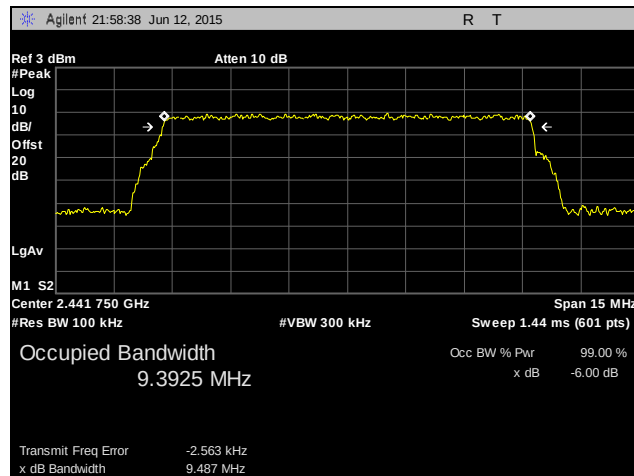


Plot 20. 6 dB Occupied Bandwidth, High Channel, 7 MHz, Chain 1

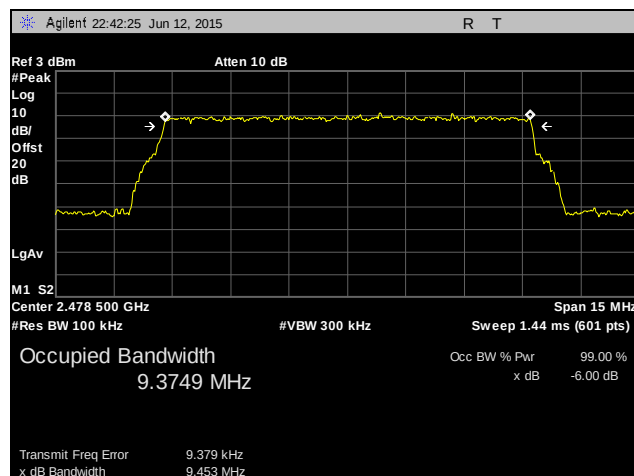
6 dB Occupied Bandwidth Test Results, 10 MHz, Chain 0



Plot 21. 6 dB Occupied Bandwidth, Low Channel, 10 MHz, Chain 0

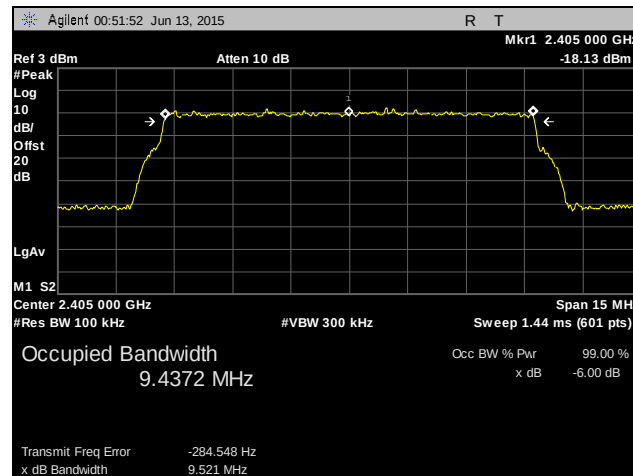


Plot 22. 6 dB Occupied Bandwidth, Mid Channel, 10 MHz, Chain 0

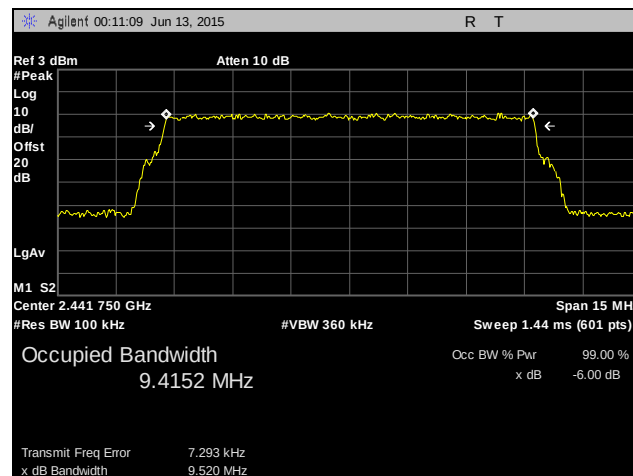


Plot 23. 6 dB Occupied Bandwidth, High Channel, 10 MHz, Chain 0

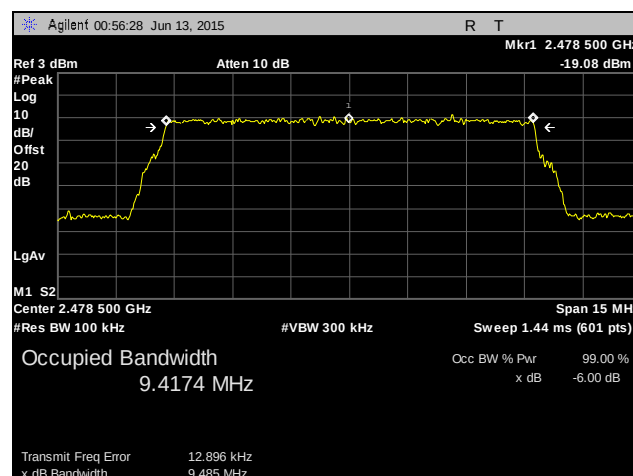
6 dB Occupied Bandwidth Test Results, 10 MHz, Chain 1



Plot 24. 6 dB Occupied Bandwidth, Low Channel, 10 MHz, Chain 1

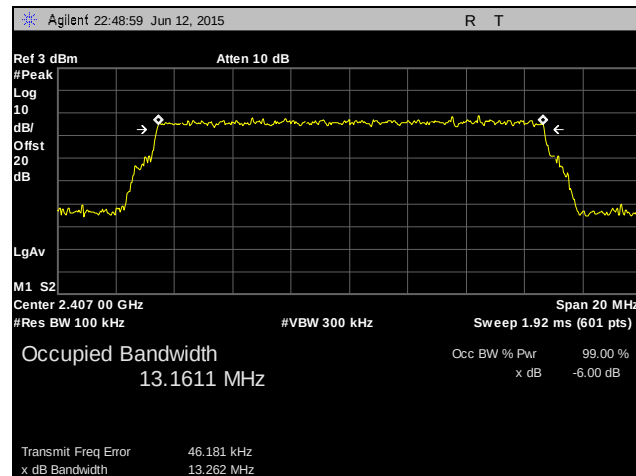


Plot 25. 6 dB Occupied Bandwidth, Mid Channel, 10 MHz, Chain 1

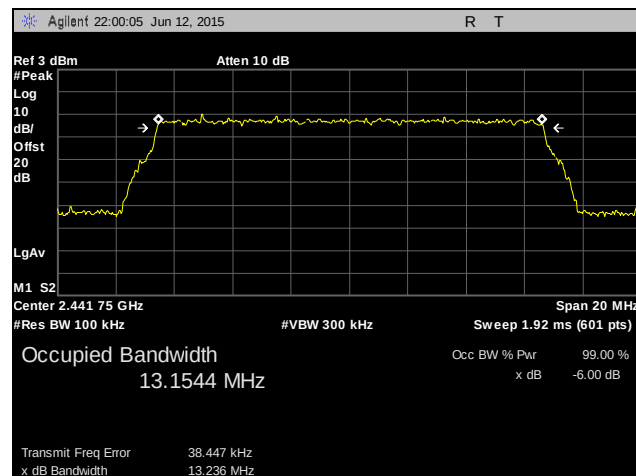


Plot 26. 6 dB Occupied Bandwidth, High Channel, 10 MHz, Chain 1

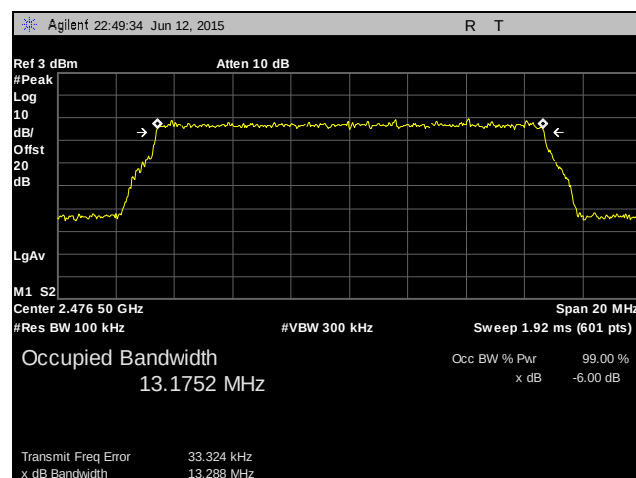
6 dB Occupied Bandwidth Test Results, 14 MHz, Chain 0



Plot 27. 6 dB Occupied Bandwidth, Low Channel, 14 MHz, Chain 0

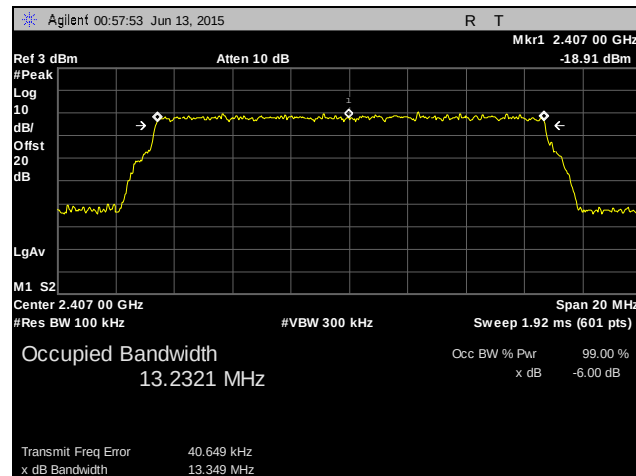


Plot 28. 6 dB Occupied Bandwidth, Mid Channel, 14 MHz, Chain 0

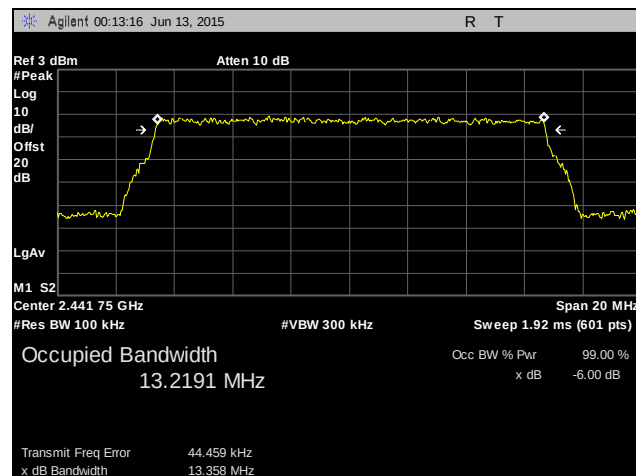


Plot 29. 6 dB Occupied Bandwidth, High Channel, 14 MHz, Chain 0

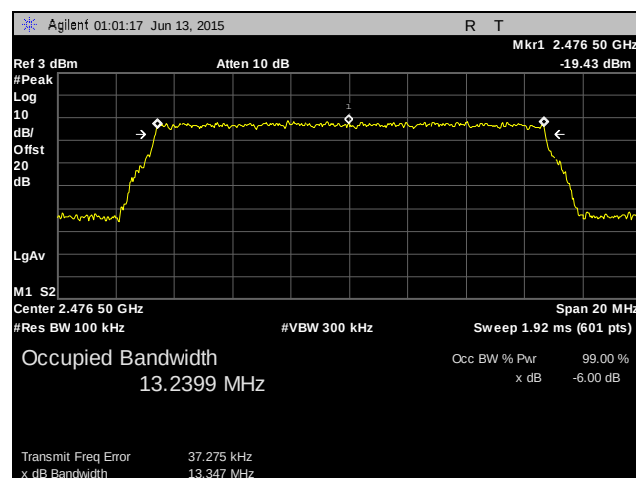
6 dB Occupied Bandwidth Test Results, 14 MHz, Chain 1



Plot 30. 6 dB Occupied Bandwidth, Low Channel, 14 MHz, Chain 1

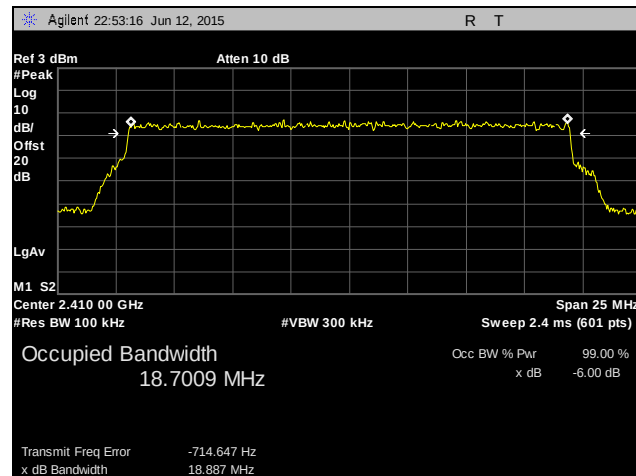


Plot 31. 6 dB Occupied Bandwidth, Mid Channel, 14 MHz, Chain 1

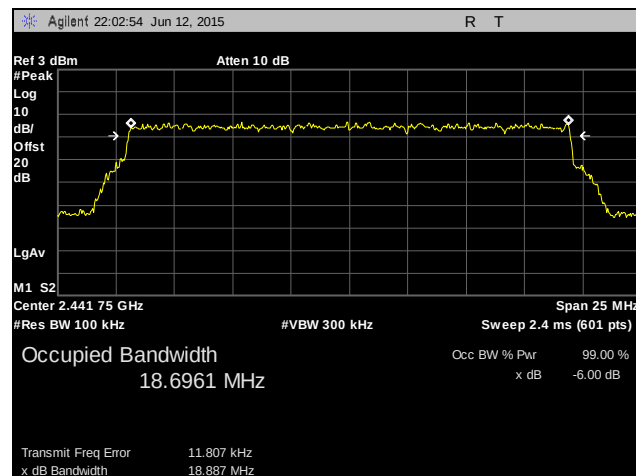


Plot 32. 6 dB Occupied Bandwidth, High Channel, 14 MHz, Chain 1

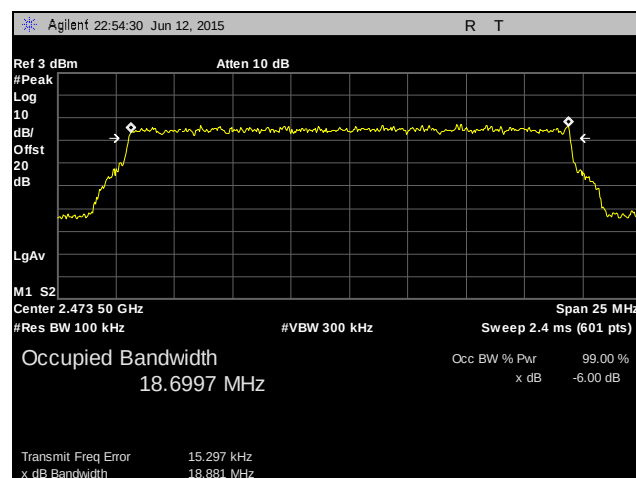
6 dB Occupied Bandwidth Test Results, 20 MHz, Chain 0



Plot 33. 6 dB Occupied Bandwidth, Low Channel, 20 MHz, Chain 0

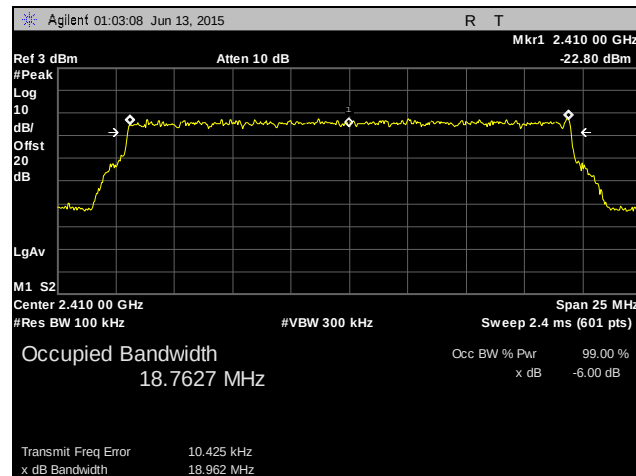


Plot 34. 6 dB Occupied Bandwidth, Mid Channel, 20 MHz, Chain 0

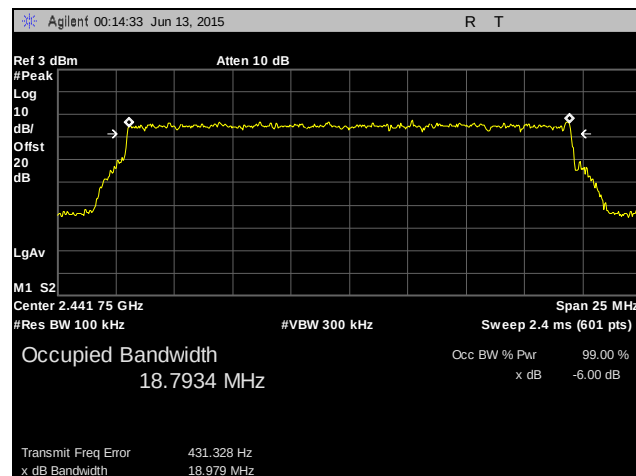


Plot 35. 6 dB Occupied Bandwidth, High Channel, 20 MHz, Chain 0

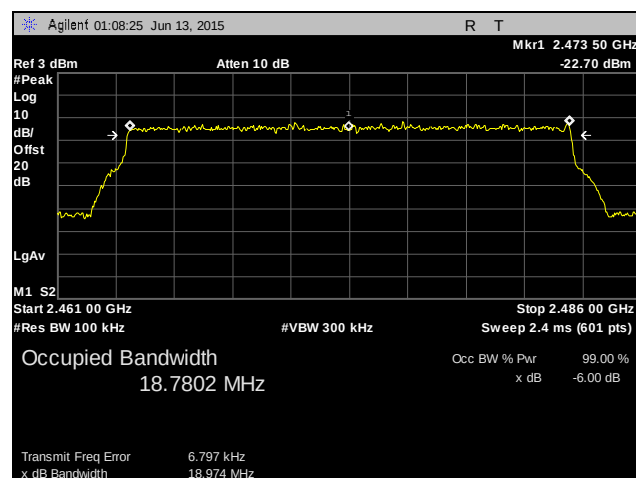
6 dB Occupied Bandwidth Test Results, 20 MHz, Chain 1



Plot 36. 6 dB Occupied Bandwidth, Low Channel, 20 MHz, Chain 1

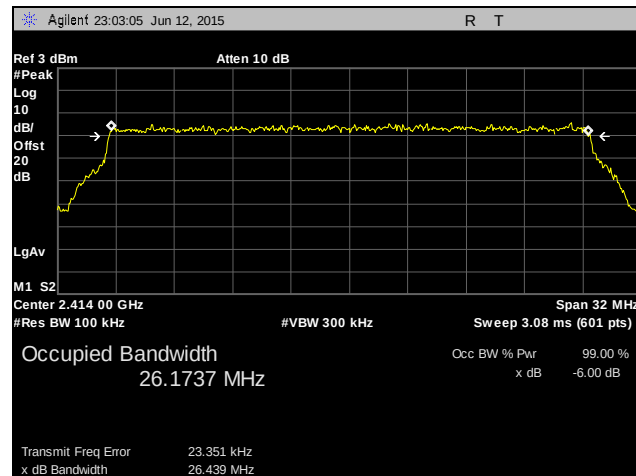


Plot 37. 6 dB Occupied Bandwidth, Mid Channel, 20 MHz, Chain 1

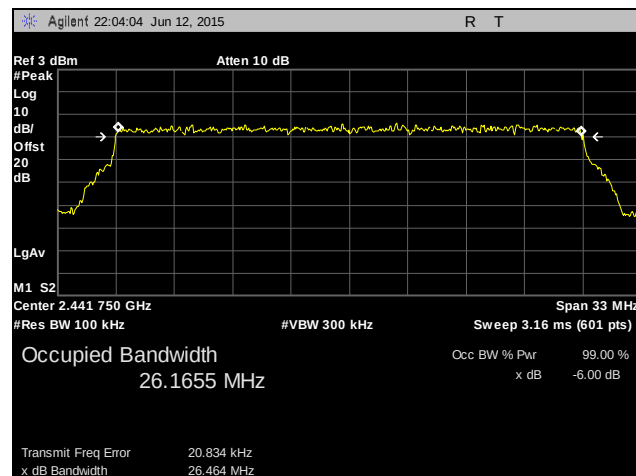


Plot 38. 6 dB Occupied Bandwidth, High Channel, 20 MHz, Chain 1

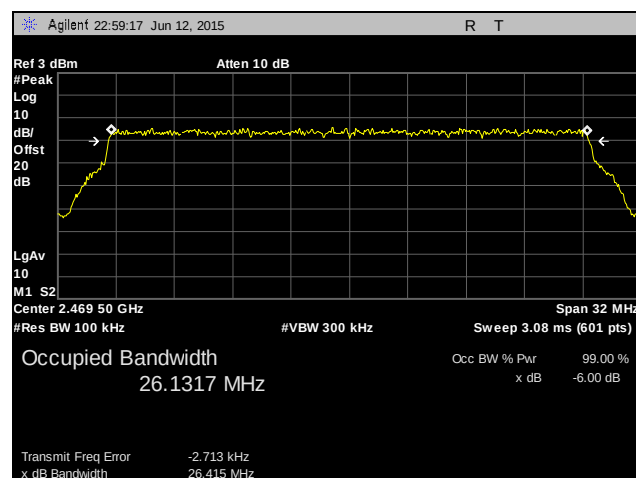
6 dB Occupied Bandwidth Test Results, 28 MHz, Chain 0



Plot 39. 6 dB Occupied Bandwidth, Low Channel, 28 MHz, Chain 0

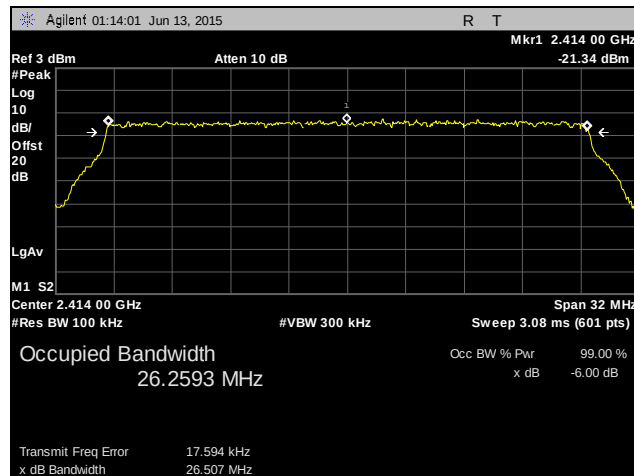


Plot 40. 6 dB Occupied Bandwidth, Mid Channel, 28 MHz, Chain 0

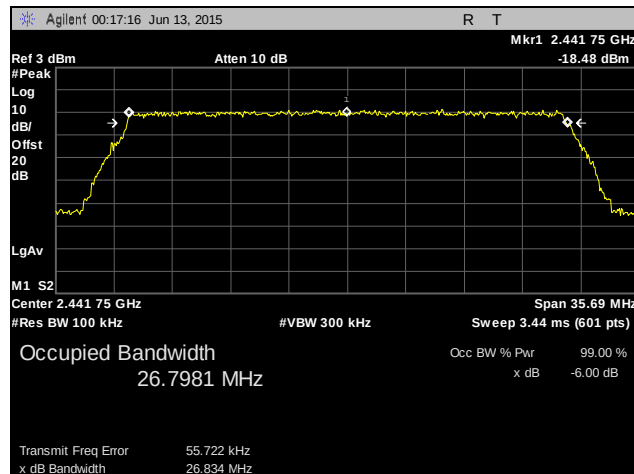


Plot 41. 6 dB Occupied Bandwidth, High Channel, 28 MHz, Chain 0

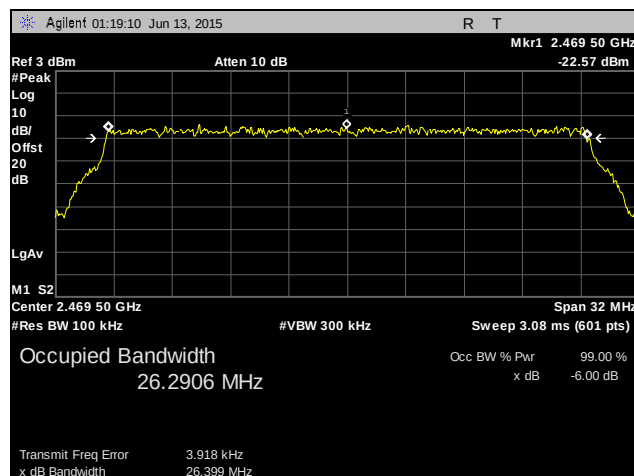
6 dB Occupied Bandwidth Test Results, 28 MHz, Chain 1



Plot 42. 6 dB Occupied Bandwidth, Low Channel, 28 MHz, Chain 1

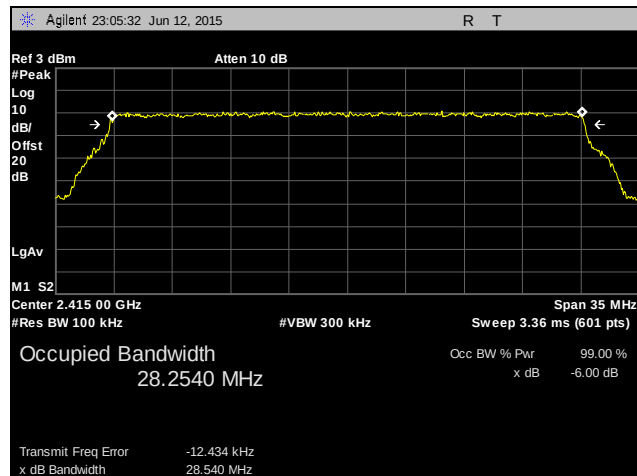


Plot 43. 6 dB Occupied Bandwidth, Mid Channel, 28 MHz, Chain 1

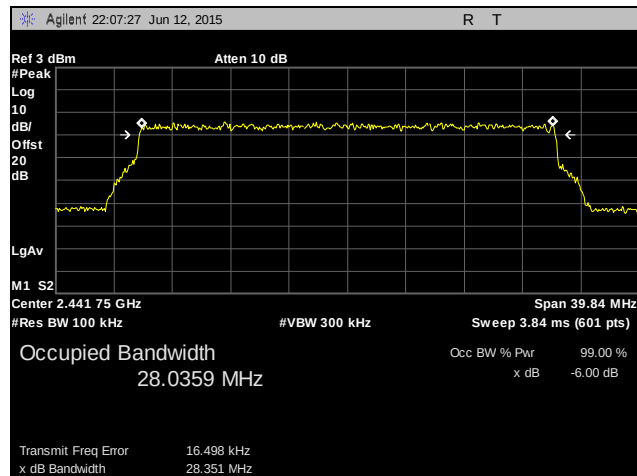


Plot 44. 6 dB Occupied Bandwidth, High Channel, 28 MHz, Chain 1

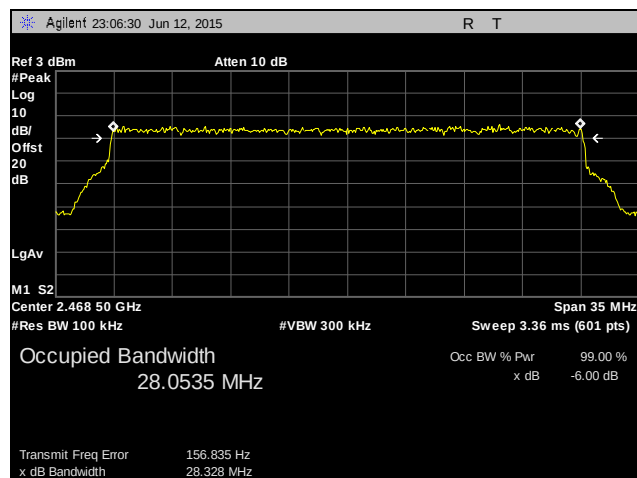
6 dB Occupied Bandwidth Test Results, 30 MHz, Chain 0



Plot 45. 6 dB Occupied Bandwidth, Low Channel, 30 MHz, Chain 0

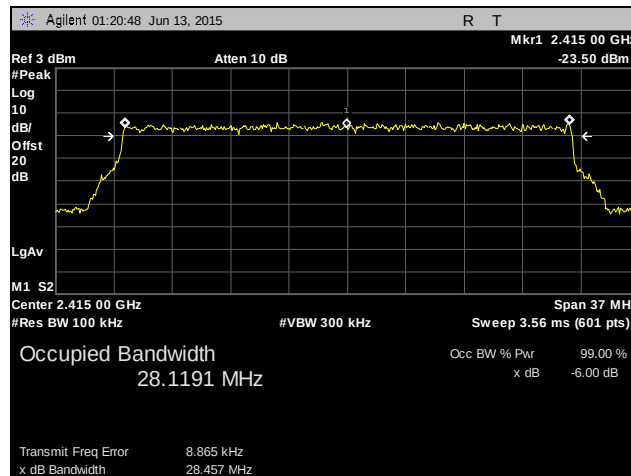


Plot 46. 6 dB Occupied Bandwidth, Mid Channel, 30 MHz, Chain 0

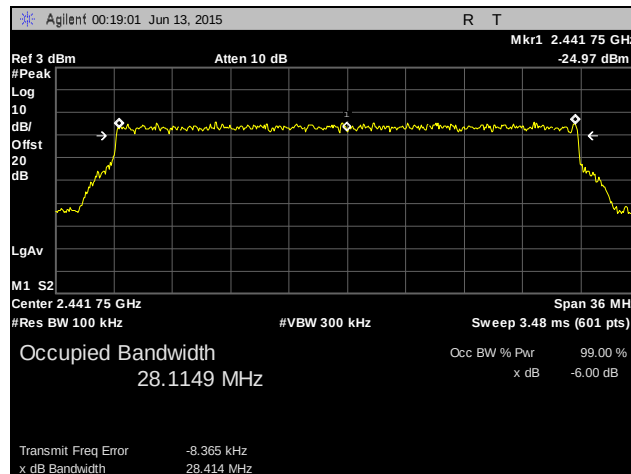


Plot 47. 6 dB Occupied Bandwidth, High Channel, 30 MHz, Chain 0

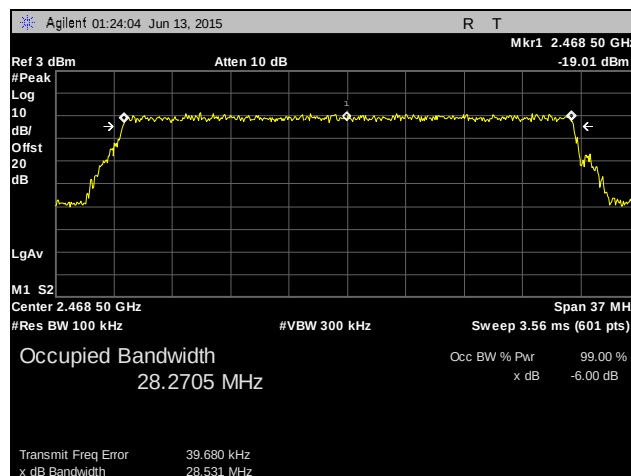
6 dB Occupied Bandwidth Test Results, 30 MHz, Chain 1



Plot 48. 6 dB Occupied Bandwidth, Low Channel, 30 MHz, Chain 1

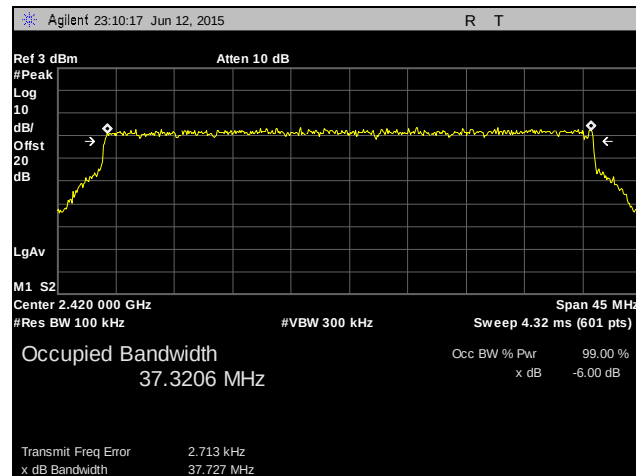


Plot 49. 6 dB Occupied Bandwidth, Mid Channel, 30 MHz, Chain 1

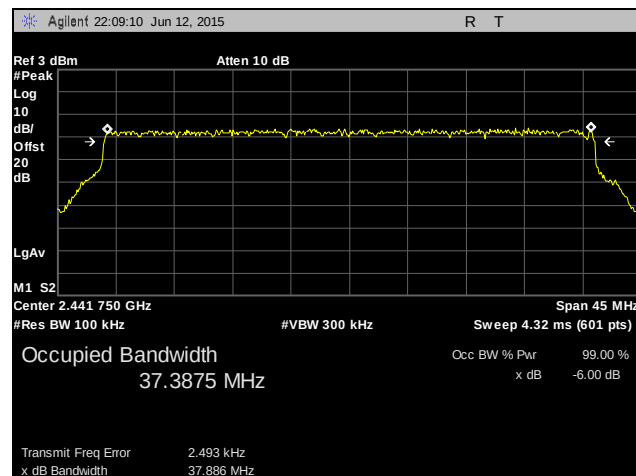


Plot 50. 6 dB Occupied Bandwidth, High Channel, 30 MHz, Chain 1

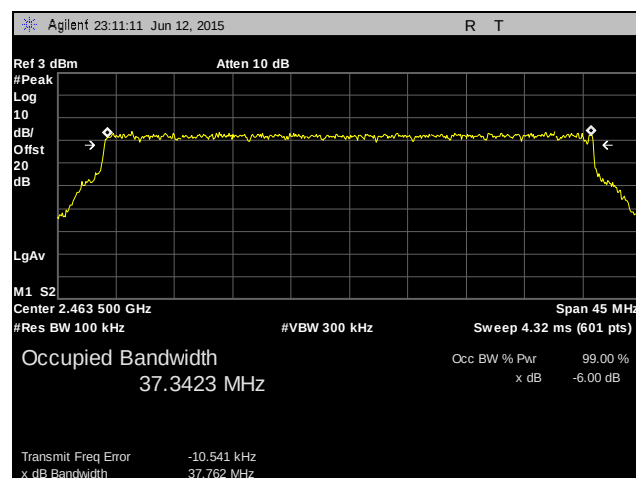
6 dB Occupied Bandwidth Test Results, 40 MHz, Chain 0



Plot 51. 6 dB Occupied Bandwidth, Low Channel, 40 MHz, Chain 0

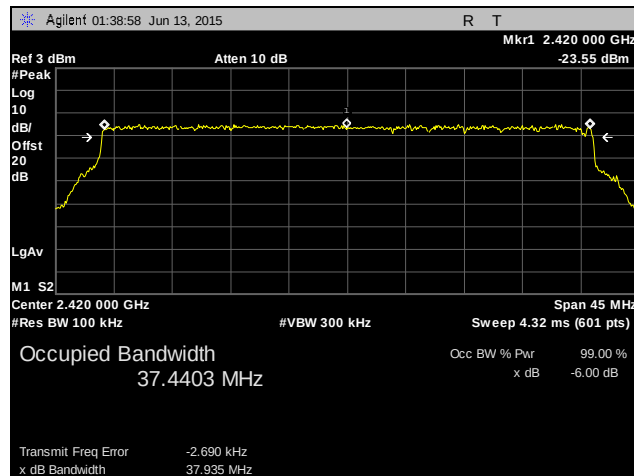


Plot 52. 6 dB Occupied Bandwidth, Mid Channel, 40 MHz, Chain 0

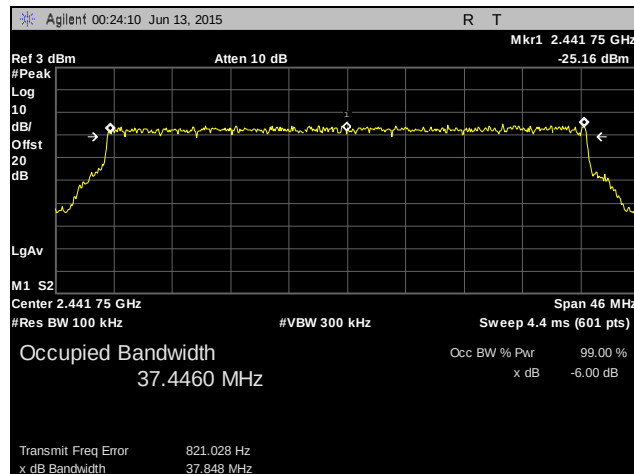


Plot 53. 6 dB Occupied Bandwidth, High Channel, 40 MHz, Chain 0

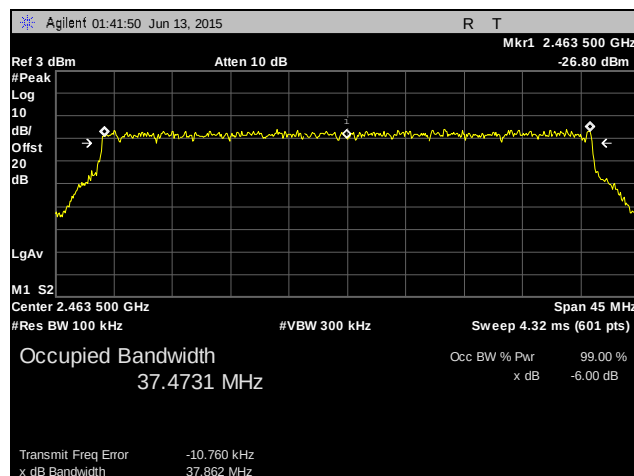
6 dB Occupied Bandwidth Test Results, 40 MHz, Chain 1



Plot 54. 6 dB Occupied Bandwidth, Low Channel, 40 MHz, Chain 1



Plot 55. 6 dB Occupied Bandwidth, Mid Channel, 40 MHz, Chain 1



Plot 56. 6 dB Occupied Bandwidth, High Channel, 40 MHz, Chain 1

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(b) Peak Power Output

Test Requirements: §15.247(b): The maximum peak output power of the intentional radiator shall not exceed the following:

Digital Transmission Systems (MHz)	Output Limit (Watts)
902-928	1.000
2400-2483.5	1.000
5725- 5850	1.000

Table 10. Output Power Requirements from §15.247(b)

§15.247(c): if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in the Table 10, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 2400 – 2483.5 MHz band and using a point to point application may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725 – 5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

Fixed, point-to-point operation excludes the use of point-to-multipoint systems, Omni-directional applications, and multiple co-located intentional radiators transmitting the same information. The operator of the spread spectrum intentional radiator or, if the equipment is professionally installed, the installer is responsible for ensuring that the system is used exclusively for fixed, point-to-point operations. The instruction manual furnished with the intentional radiator shall contain language in the installation instructions informing the operator and the installer of this responsibility.

Test Procedure: The transmitter was connected to a calibrated spectrum analyzer. The EUT was measured at the low, mid and high channels of each band at the maximum power level.

Test Results: The EUT was compliant with the Peak Power Output limits of §15.247(b).

Test Engineer(s): Djed Mouada

Test Date(s): 07/09/15



Figure 2. Peak Power Output Test Setup

Peak Power Output Test Results

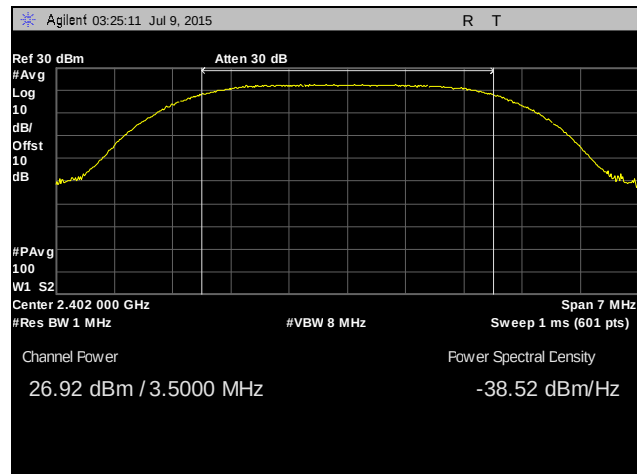
6 dBi Antenna						
3.5MHz	Frequency (MHz)	Chain 0 (dBm)	Chain 1(dBm)	sum (dBm)	Limit (dBm)	Margin
Low	2402	26.92	26.9	29.92	30	-0.08
Mid	2441.75	26.71	26.45	29.592	30	-0.408
High	2479	26.84	26.6	29.732	30	-0.268
5MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2403	26.95	26.63	29.803	30	-0.197
Mid	2441.75	26.92	26.54	29.744	30	-0.256
High	2477	26.77	26.23	29.519	30	-0.481
7MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2404	27.04	26.7	29.884	30	-0.116
Mid	2441.75	26.76	26.83	29.805	30	-0.195
High	2477	26.75	26.38	29.579	30	-0.421
10MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2405	26.75	26.94	29.856	30	-0.144
Mid	2441.75	26.49	26.94	29.731	30	-0.269
High	2475	26.63	26.84	29.747	30	-0.253
14MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2407	26.77	26.84	29.815	30	-0.185
Mid	2441.75	26.93	26.46	29.712	30	-0.288
High	2471	26.89	26.53	29.724	30	-0.276
20MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2410	26.47	26.68	29.587	30	-0.413
Mid	2441.75	26.7	26.52	29.621	30	-0.379
High	2468	26.67	26.29	29.494	30	-0.506
28MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2414	26.86	26.99	29.936	30	-0.064
Mid	2441.75	26.37	26.8	29.601	30	-0.399
High	2467	26.74	26.56	29.661	30	-0.339
30MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2415	26.41	26.71	29.573	30	-0.427
Mid	2441.75	26.75	26.99	29.882	30	-0.118
High	2466	26.49	26.36	29.436	30	-0.564
40MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2420	26.54	26.72	29.641	30	-0.359
Mid	2441.75	26.51	26.9	29.72	30	-0.28
High	2461	26.65	26.76	29.716	30	-0.284

Table 11. Peak Power Output, Test Results, 6 dBi Antenna

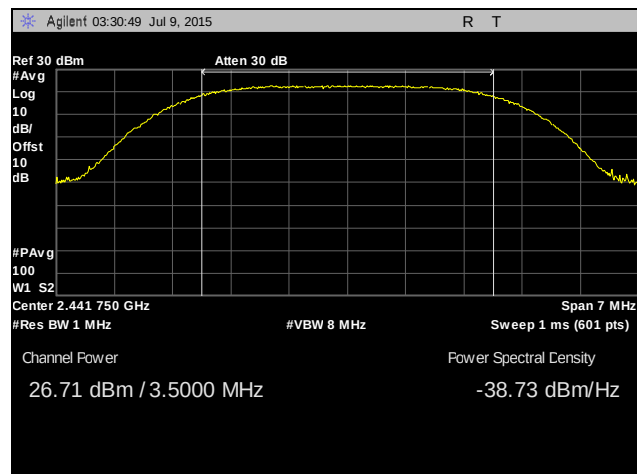
24 dBi Antenna						
3.5MHz	Frequency (MHz)	Chain 0 (dBm)	Chain 1(dBm)	sum (dBm)	Limit (dBm)	Margin
Low	2402	20.48	20.93	23.721	24	-0.279
Mid	2441.75	20.8	20.91	23.866	24	-0.134
High	2479	20.77	20.92	23.856	24	-0.144
5MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2403	20.97	21	23.995	24	-0.005
Mid	2441.75	20.98	20.97	23.985	24	-0.015
High	2477	20.67	20.31	23.504	24	-0.496
7MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2404	20.79	21	23.907	24	-0.093
Mid	2441.75	21.87	20.95	24.445	24	0.445
High	2477	20.72	20.76	23.75	24	-0.25
10MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2405	20.88	20.69	23.796	24	-0.204
Mid	2441.75	20.8	20.87	23.845	24	-0.155
High	2475	20.51	20.7	23.616	24	-0.384
14MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2407	20.78	20.82	23.81	24	-0.19
Mid	2441.75	21	20.87	23.946	24	-0.054
High	2471	20.83	20.83	23.84	24	-0.16
20MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2410	20.6	20.93	23.778	24	-0.222
Mid	2441.75	20.92	20.93	23.935	24	-0.065
High	2468	20.59	20.6	23.605	24	-0.395
28MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2414	20.82	20.97	23.906	24	-0.094
Mid	2441.75	20.91	20.78	23.856	24	-0.144
High	2467	20.92	20.92	23.93	24	-0.07
30MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2415	20.81	20.83	23.83	24	-0.17
Mid	2441.75	20.98	20.56	23.785	24	-0.215
High	2466	20.7	20.26	23.496	24	-0.504
40MHz	Frequency (MHz)	Chain 0	Chain 1	sum (dBm)	Limit (dBm)	Margin
Low	2420	20.63	20.68	23.665	24	-0.335
Mid	2441.75	20.62	20.78	23.711	24	-0.289
High	2461	20.83	20.82	23.835	24	-0.165

Table 12. Peak Power Output, Test Results, 24 dBi Antenna

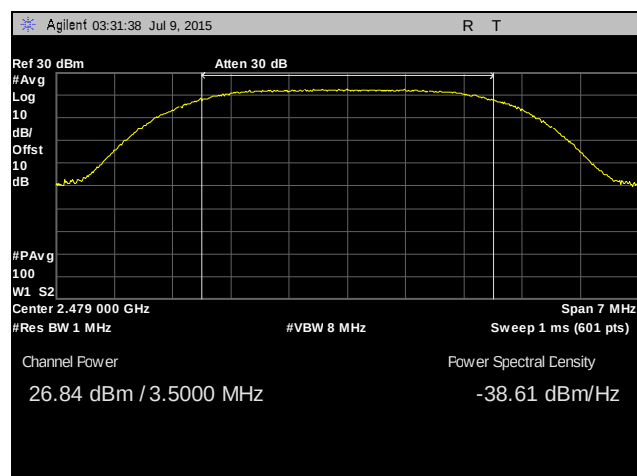
Peak Output Power Test Results, 3.5 MHz, Chain 0, 6 dBi Antenna



Plot 57. Peak Output Power, Low Channel, 3.5 MHz, Chain 0, 6 dBi Antenna

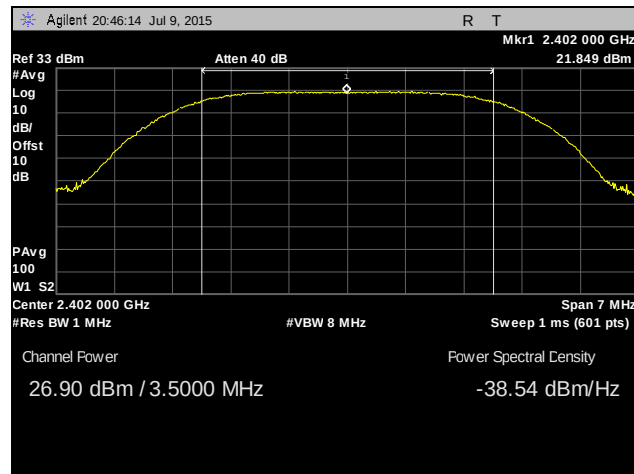


Plot 58. Peak Output Power, Mid Channel, 3.5 MHz, Chain 0, 6 dBi Antenna

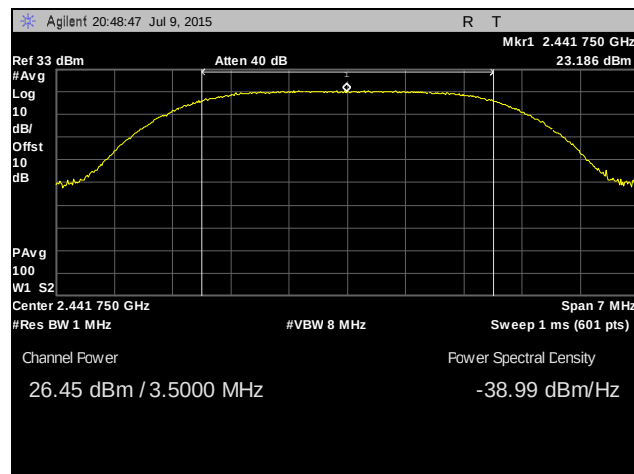


Plot 59. Peak Output Power, High Channel, 3.5 MHz, Chain 0, 6 dBi Antenna

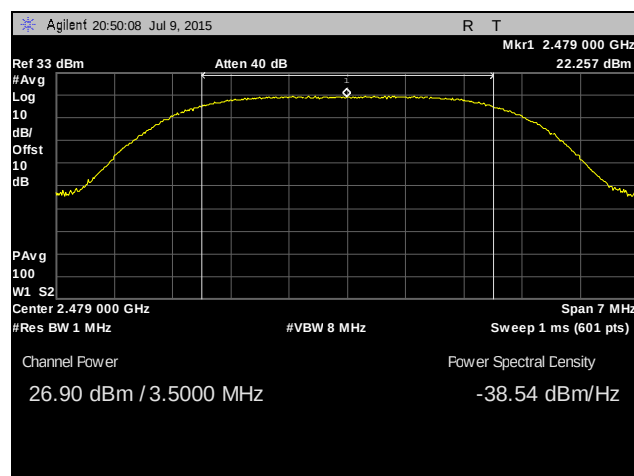
Peak Output Power Test Results, 3.5 MHz, Chain 1, 6 dBi Antenna



Plot 60. Peak Output Power, Low Channel, 3.5 MHz, Chain 1, 6 dBi Antenna

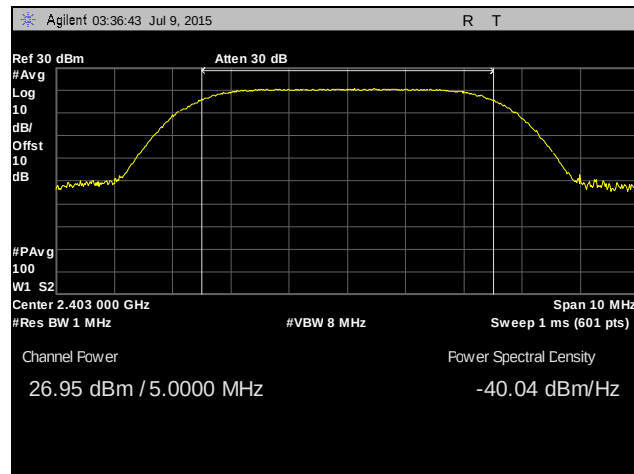


Plot 61. Peak Output Power, Mid Channel, 3.5 MHz, Chain 1, 6 dBi Antenna

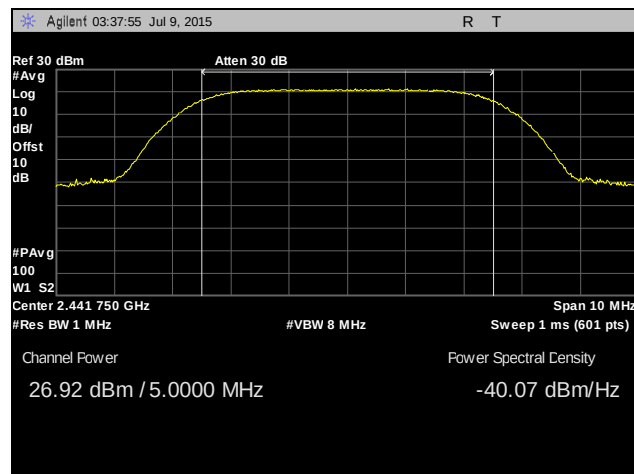


Plot 62. Peak Output Power, High Channel, 3.5 MHz, Chain 1, 6 dBi Antenna

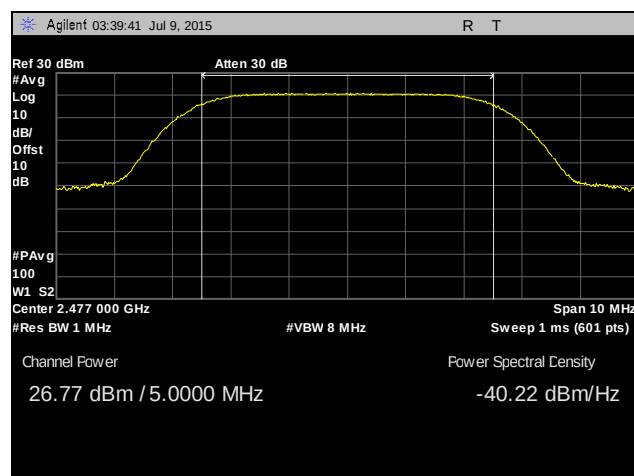
Peak Output Power Test Results, 5 MHz, Chain 0, 6 dBi Antenna



Plot 63. Peak Output Power, Low Channel, 5 MHz, Chain 0, 6 dBi Antenna

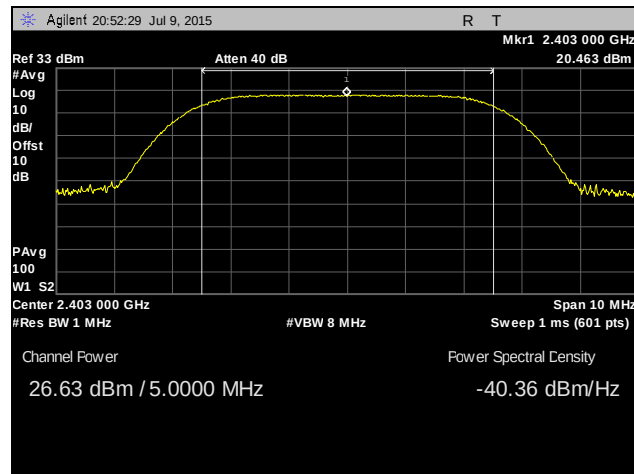


Plot 64. Peak Output Power, Mid Channel, 5 MHz, Chain 0, 6 dBi Antenna

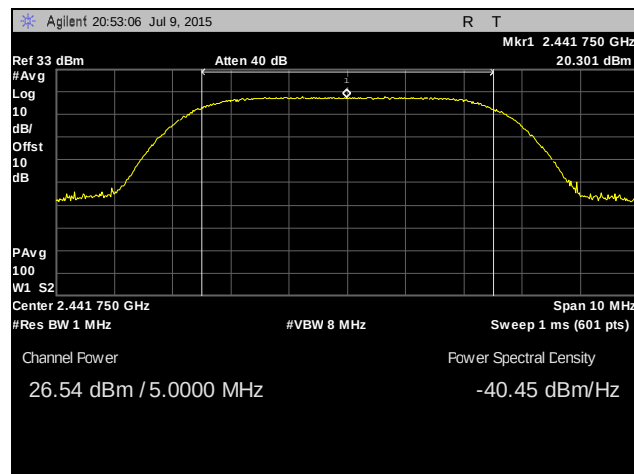


Plot 65. Peak Output Power, High Channel, 5 MHz, Chain 0, 6 dBi Antenna

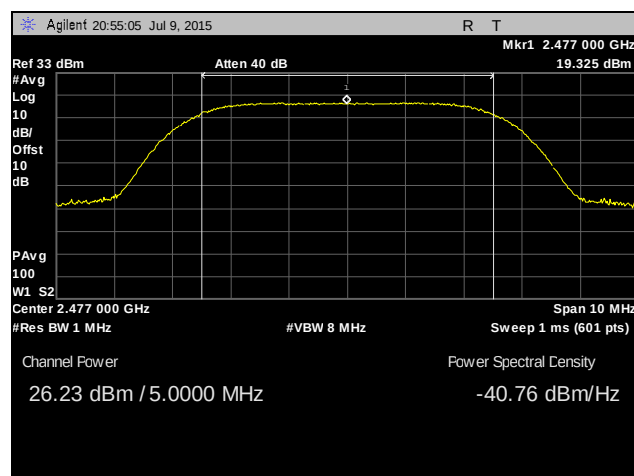
Peak Output Power Test Results, 5 MHz, Chain 1, 6 dBi Antenna



Plot 66. Peak Output Power, Low Channel, 5 MHz, Chain 1, 6 dBi Antenna

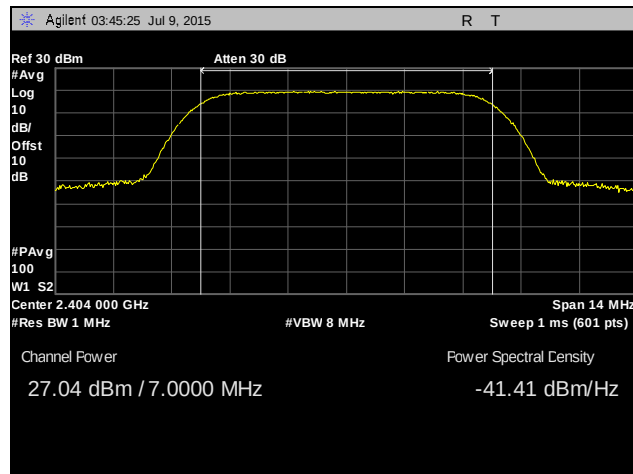


Plot 67. Peak Output Power, Mid Channel, 5 MHz, Chain 1, 6 dBi Antenna

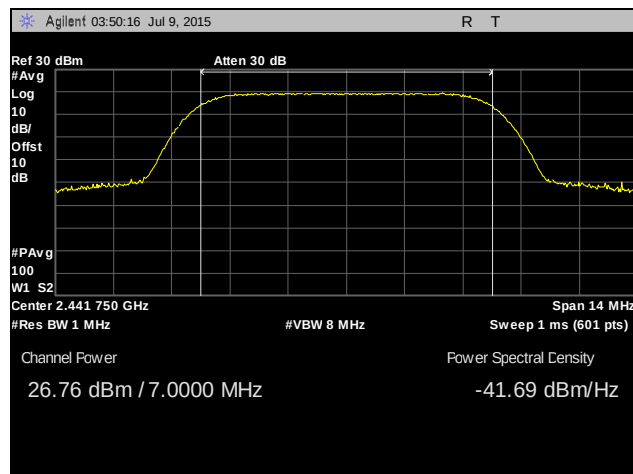


Plot 68. Peak Output Power, High Channel, 5 MHz, Chain 1, 6 dBi Antenna

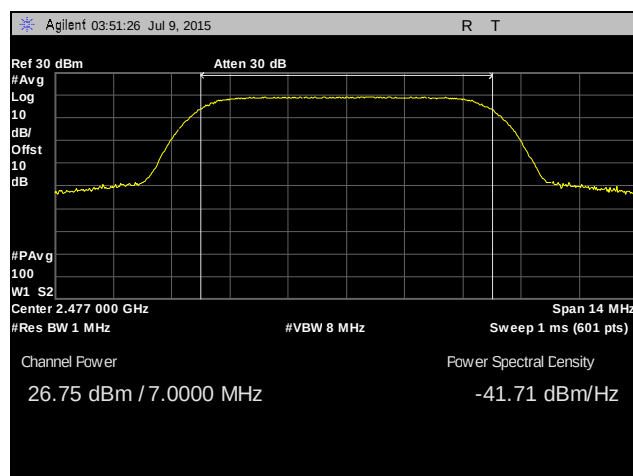
Peak Output Power Test Results, 7 MHz, Chain 0, 6 dBi Antenna



Plot 69. Peak Output Power, Low Channel, 7 MHz, Chain 0, 6 dBi Antenna

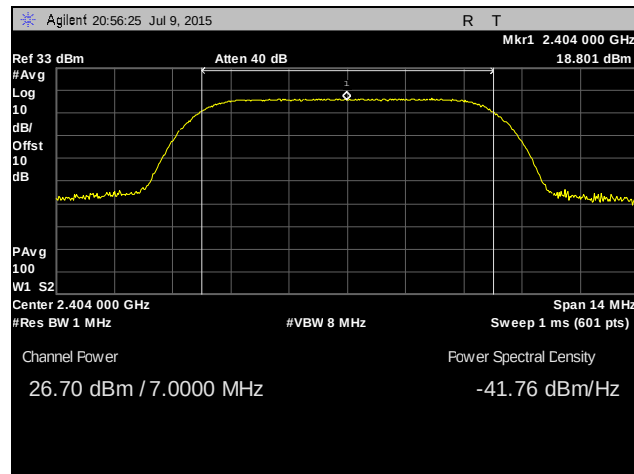


Plot 70. Peak Output Power, Mid Channel, 7 MHz, Chain 0, 6 dBi Antenna

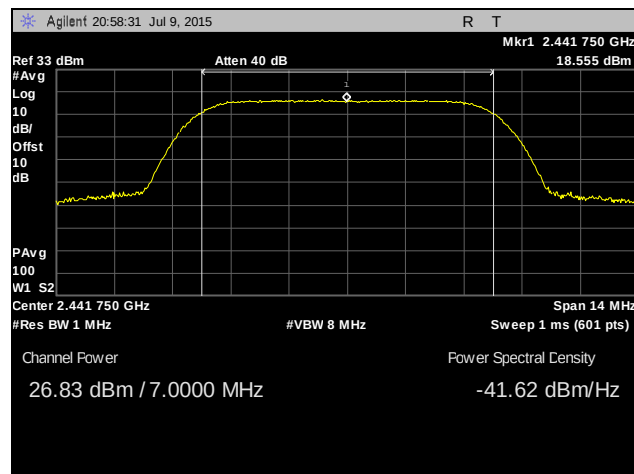


Plot 71. Peak Output Power, High Channel, 7 MHz, Chain 0, 6 dBi Antenna

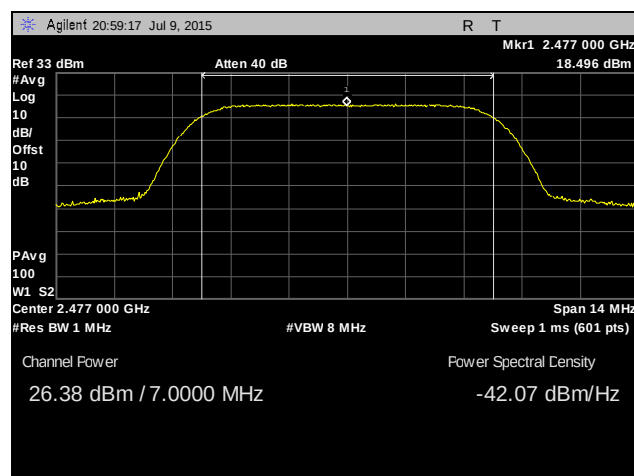
Peak Output Power Test Results, 7 MHz, Chain 1, 6 dBi Antenna



Plot 72. Peak Output Power, Low Channel, 7 MHz, Chain 1, 6 dBi Antenna

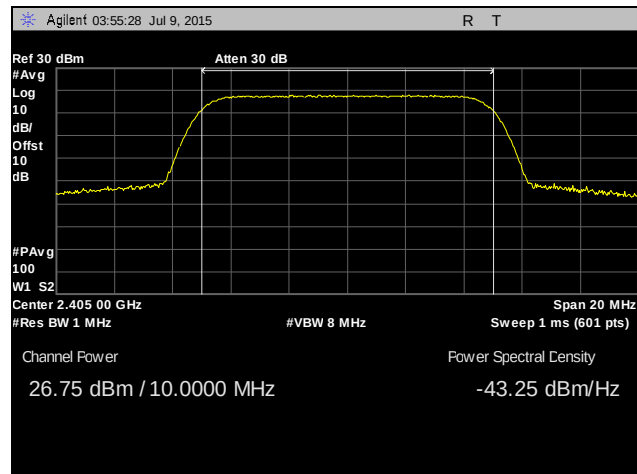


Plot 73. Peak Output Power, Mid Channel, 7 MHz, Chain 1, 6 dBi Antenna

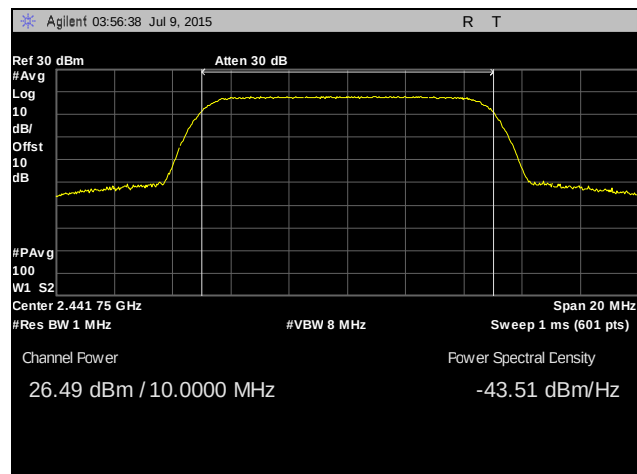


Plot 74. Peak Output Power, High Channel, 7 MHz, Chain 1, 6 dBi Antenna

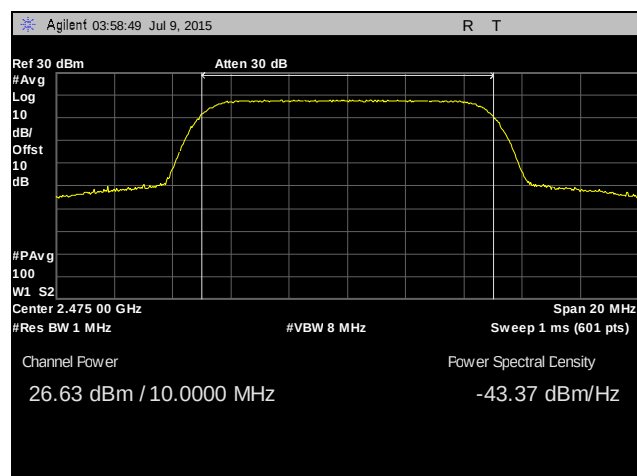
Peak Output Power Test Results, 10 MHz, Chain 0, 6 dBi Antenna



Plot 75. Peak Output Power, Low Channel, 10 MHz, Chain 0, 6 dBi Antenna

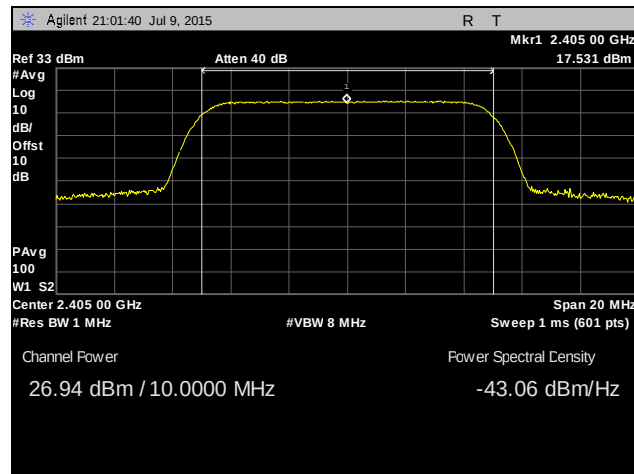


Plot 76. Peak Output Power, Mid Channel, 10 MHz, Chain 0, 6 dBi Antenna

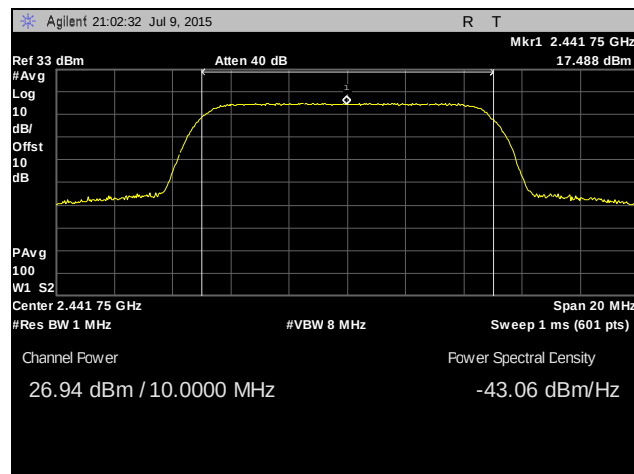


Plot 77. Peak Output Power, High Channel, 10 MHz, Chain 0, 6 dBi Antenna

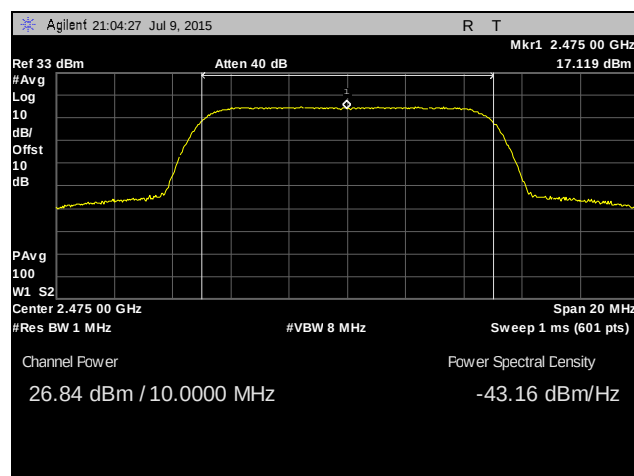
Peak Output Power Test Results, 10 MHz, Chain 1, 6 dBi Antenna



Plot 78. Peak Output Power, Low Channel, 10 MHz, Chain 1, 6 dBi Antenna

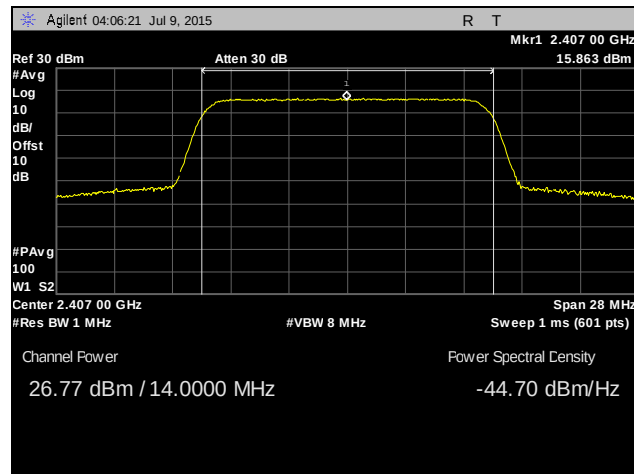


Plot 79. Peak Output Power, Mid Channel, 10 MHz, Chain 1, 6 dBi Antenna

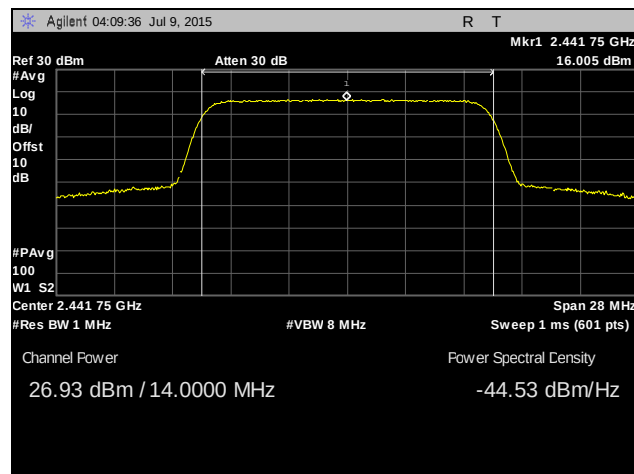


Plot 80. Peak Output Power, High Channel, 10 MHz, Chain 1, 6 dBi Antenna

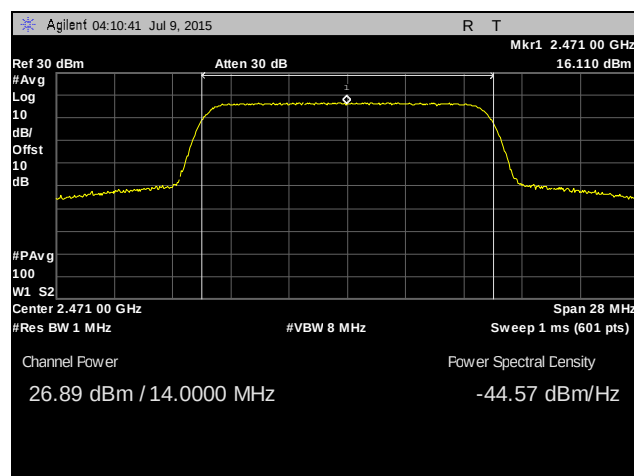
Peak Output Power Test Results, 14 MHz, Chain 0, 6 dBi Antenna



Plot 81. Peak Output Power, Low Channel, 14 MHz, Chain 0, 6 dBi Antenna

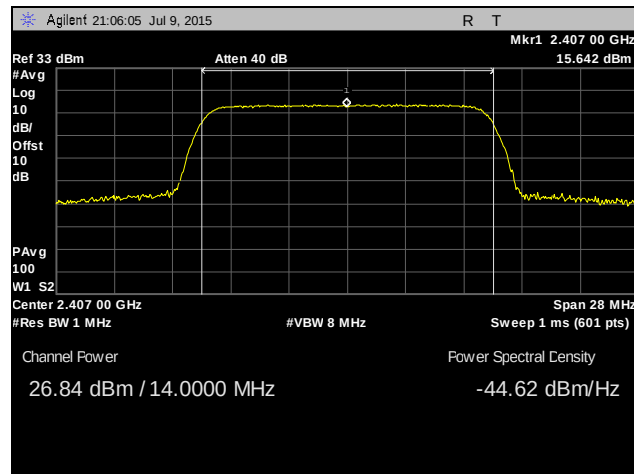


Plot 82. Peak Output Power, Mid Channel, 14 MHz, Chain 0, 6 dBi Antenna

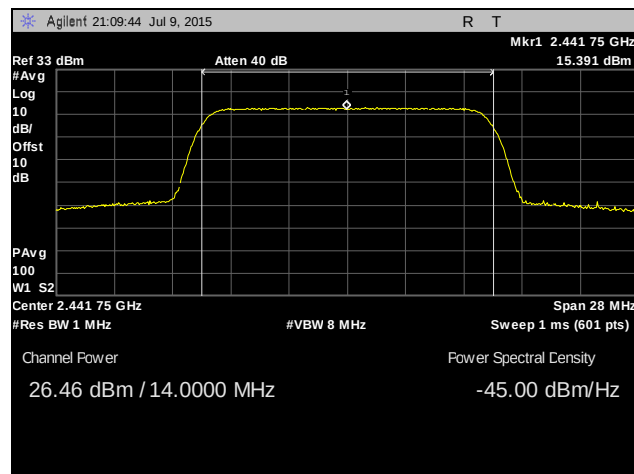


Plot 83. Peak Output Power, High Channel, 14 MHz, Chain 0, 6 dBi Antenna

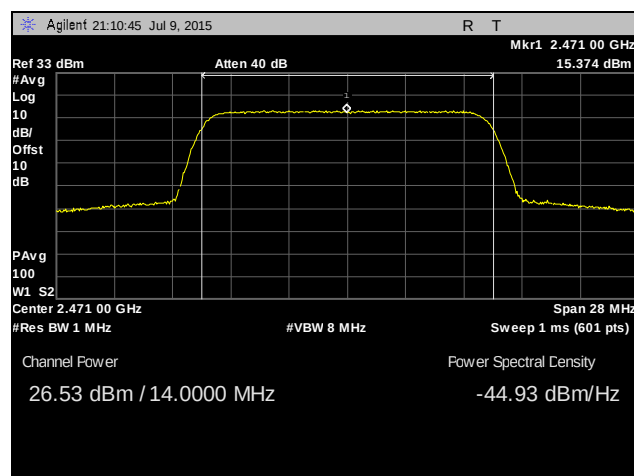
Peak Output Power Test Results, 14 MHz, Chain 1, 6 dBi Antenna



Plot 84. Peak Output Power, Low Channel, 14 MHz, Chain 1, 6 dBi Antenna

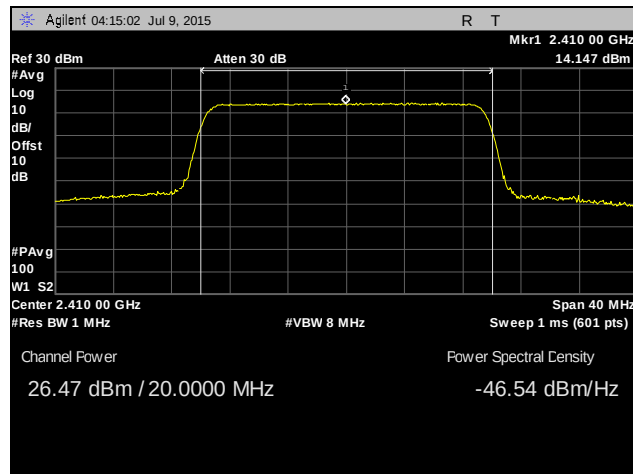


Plot 85. Peak Output Power, Mid Channel, 14 MHz, Chain 1, 6 dBi Antenna

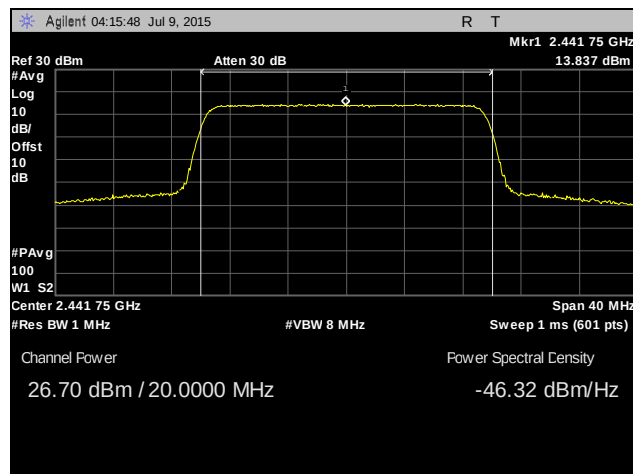


Plot 86. Peak Output Power, High Channel, 14 MHz, Chain 1, 6 dBi Antenna

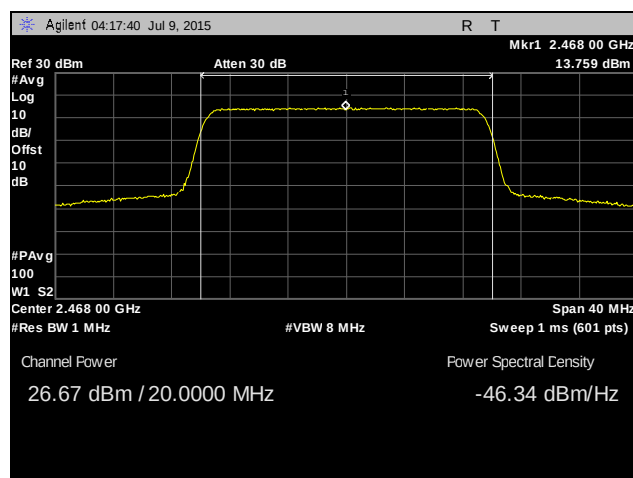
Peak Output Power Test Results, 20 MHz, Chain 0, 6 dBi Antenna



Plot 87. Peak Output Power, Low Channel, 20 MHz, Chain 0, 6 dBi Antenna

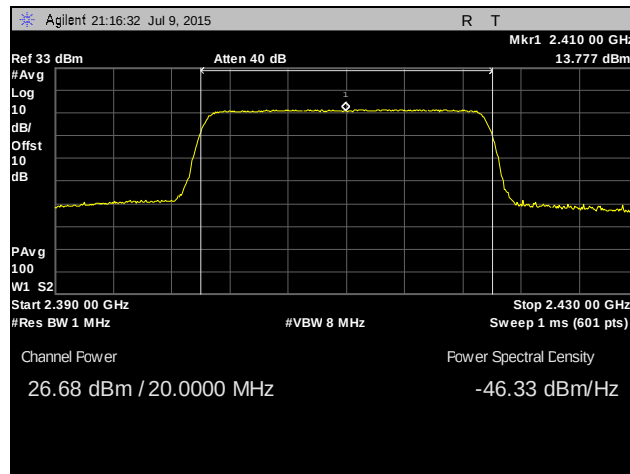


Plot 88. Peak Output Power, Mid Channel, 20 MHz, Chain 0, 6 dBi Antenna

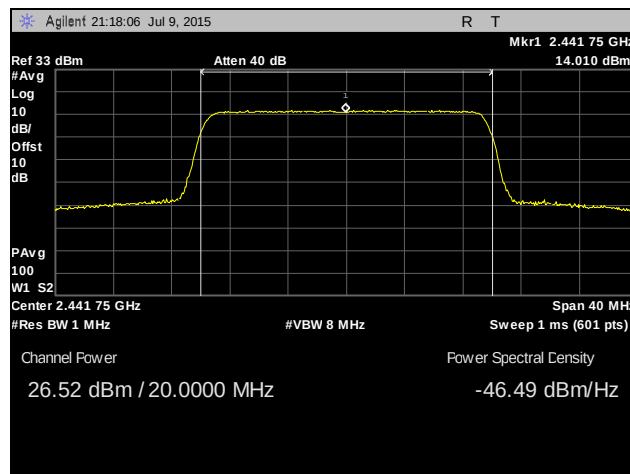


Plot 89. Peak Output Power, High Channel, 20 MHz, Chain 0, 6 dBi Antenna

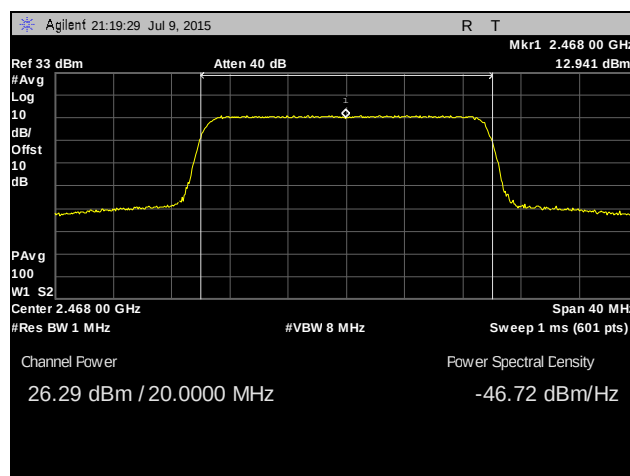
Peak Output Power Test Results, 20 MHz, Chain 1, 6 dBi Antenna



Plot 90. Peak Output Power, Low Channel, 20 MHz, Chain 1, 6 dBi Antenna

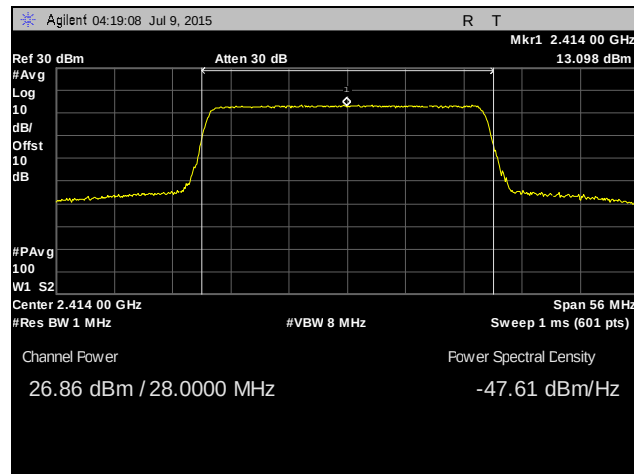


Plot 91. Peak Output Power, Mid Channel, 20 MHz, Chain 1, 6 dBi Antenna

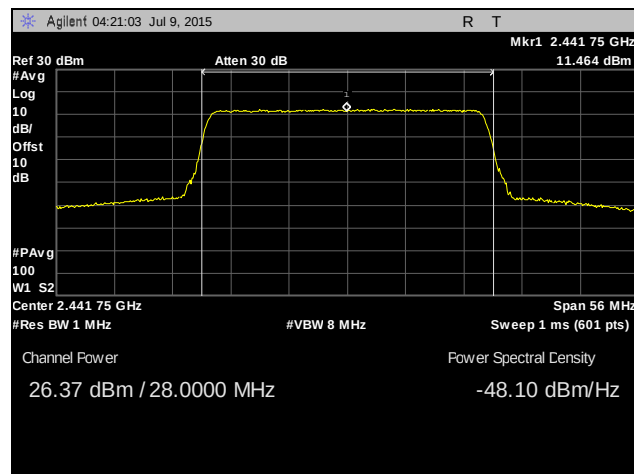


Plot 92. Peak Output Power, High Channel, 20 MHz, Chain 1, 6 dBi Antenna

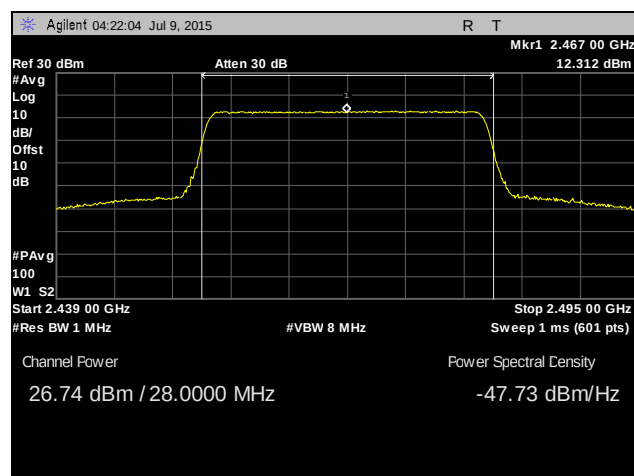
Peak Output Power Test Results, 28 MHz, Chain 0, 6 dBi Antenna



Plot 93. Peak Output Power, Low Channel, 28 MHz, Chain 0, 6 dBi Antenna

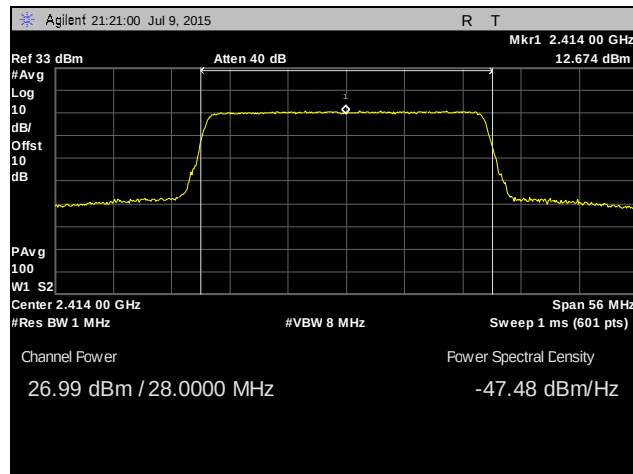


Plot 94. Peak Output Power, Mid Channel, 28 MHz, Chain 0, 6 dBi Antenna

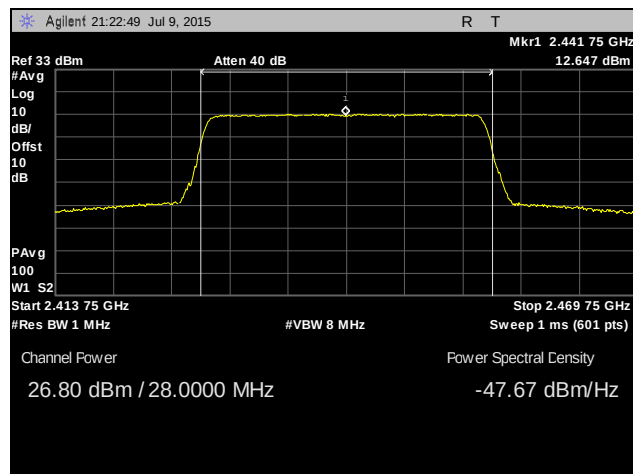


Plot 95. Peak Output Power, High Channel, 28 MHz, Chain 0, 6 dBi Antenna

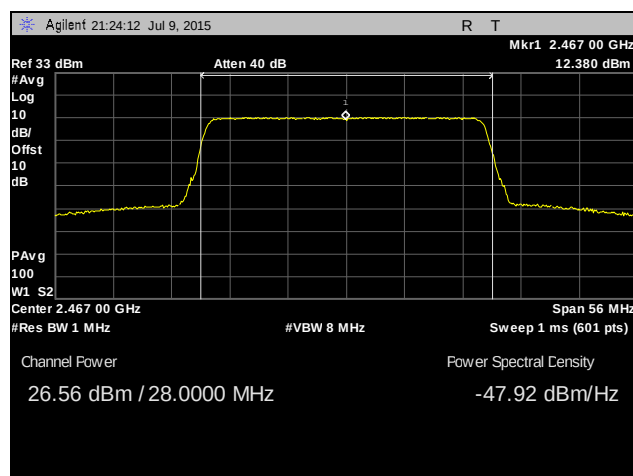
Peak Output Power Test Results, 28 MHz, Chain 1, 6 dBi Antenna



Plot 96. Peak Output Power, Low Channel, 28 MHz, Chain 1, 6 dBi Antenna

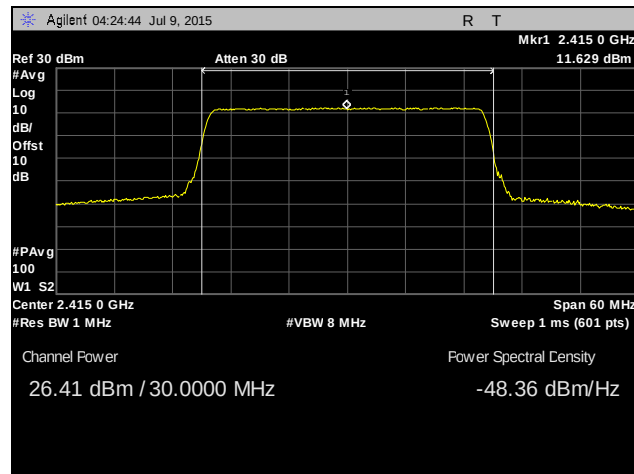


Plot 97. Peak Output Power, Mid Channel, 28 MHz, Chain 1, 6 dBi Antenna

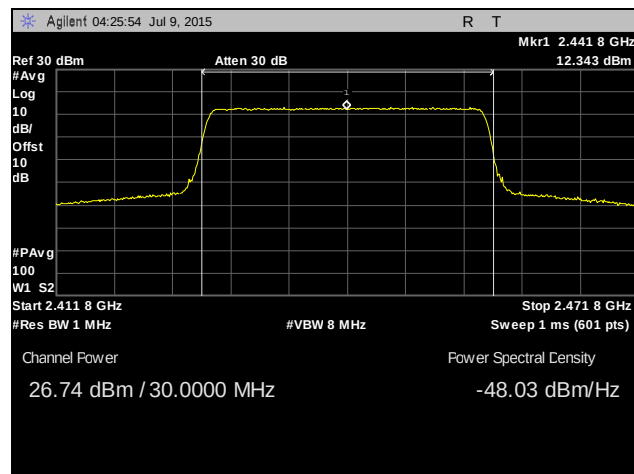


Plot 98. Peak Output Power, High Channel, 28 MHz, Chain 1, 6 dBi Antenna

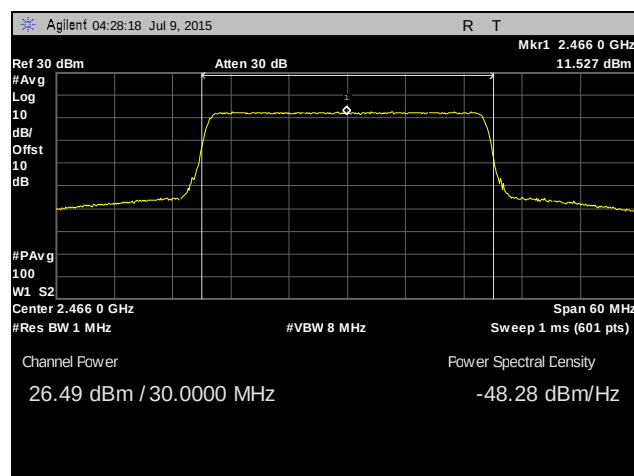
Peak Output Power Test Results, 30 MHz, Chain 0, 6 dBi Antenna



Plot 99. Peak Output Power, Low Channel, 30 MHz, Chain 0, 6 dBi Antenna

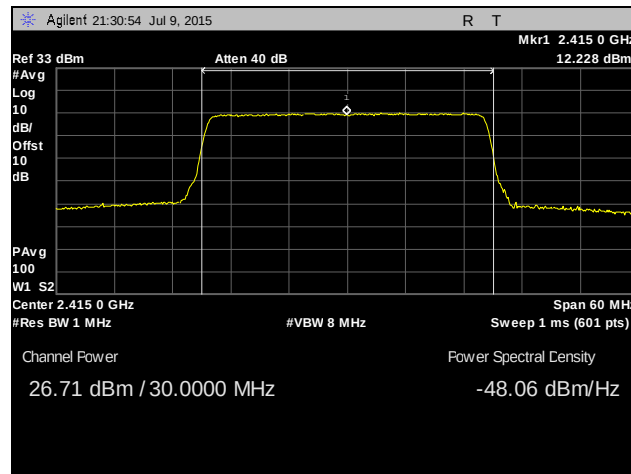


Plot 100. Peak Output Power, Mid Channel, 30 MHz, Chain 0, 6 dBi Antenna

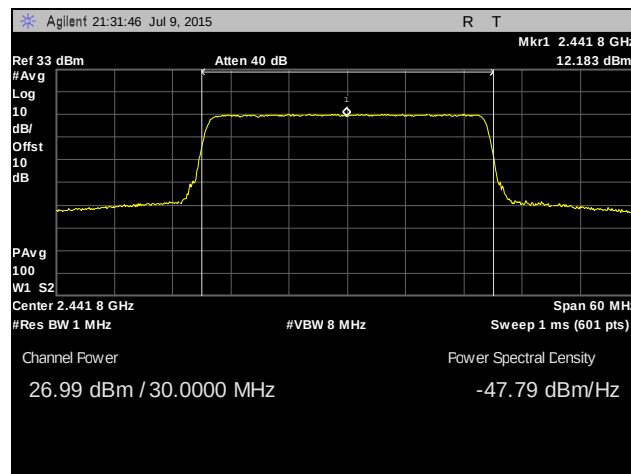


Plot 101. Peak Output Power, High Channel, 30 MHz, Chain 0, 6 dBi Antenna

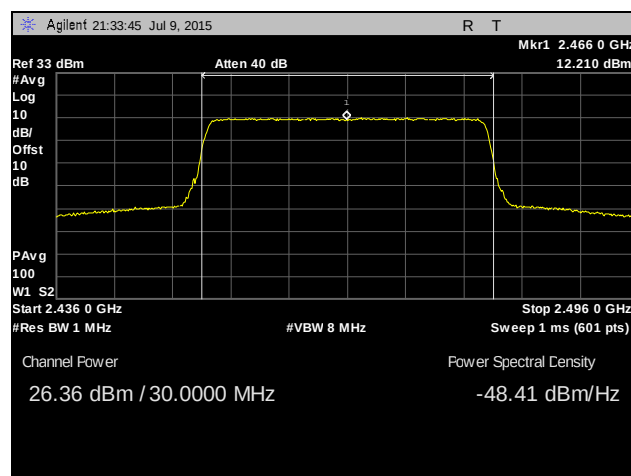
Peak Output Power Test Results, 30 MHz, Chain 1, 6 dBi Antenna



Plot 102. Peak Output Power, Low Channel, 30 MHz, Chain 1, 6 dBi Antenna

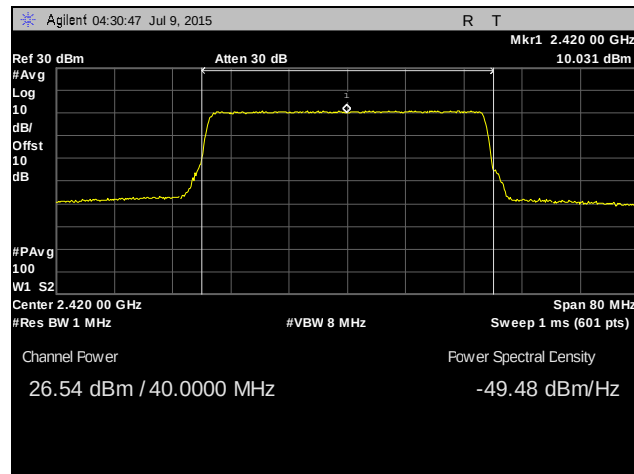


Plot 103. Peak Output Power, Mid Channel, 30 MHz, Chain 1, 6 dBi Antenna

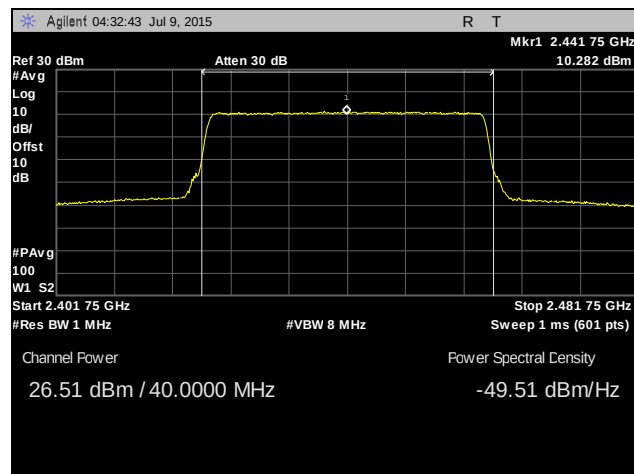


Plot 104. Peak Output Power, High Channel, 30 MHz, Chain 1, 6 dBi Antenna

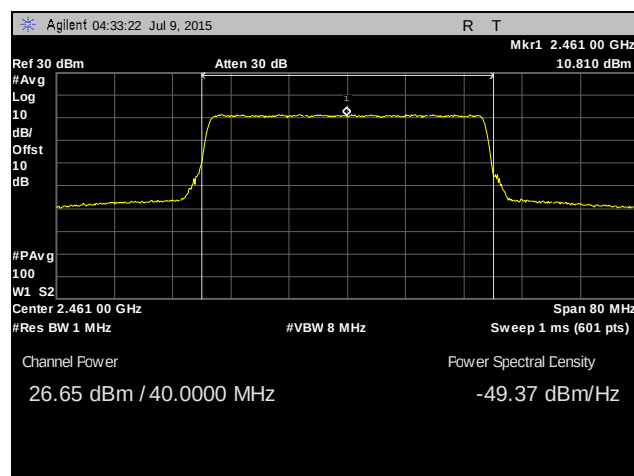
Peak Output Power Test Results, 40 MHz, Chain 0, 6 dBi Antenna



Plot 105. Peak Output Power, Low Channel, 40 MHz, Chain 0, 6 dBi Antenna

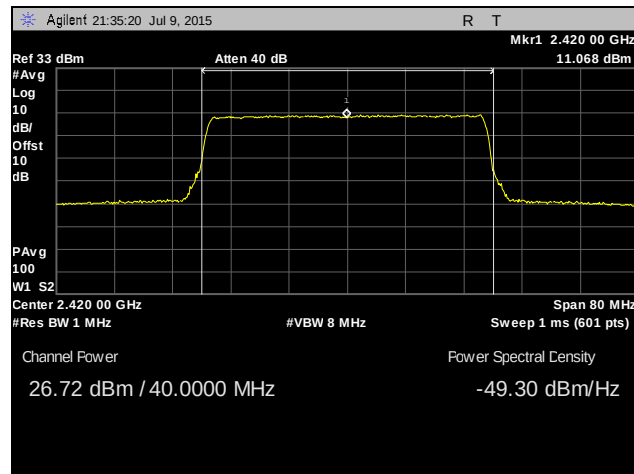


Plot 106. Peak Output Power, Mid Channel, 40 MHz, Chain 0, 6 dBi Antenna

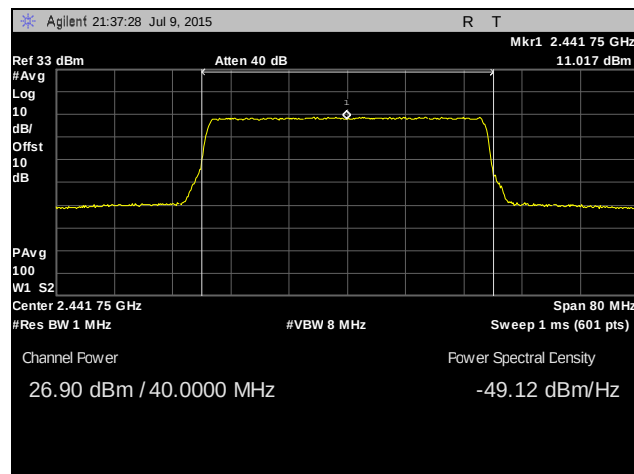


Plot 107. Peak Output Power, High Channel, 40 MHz, Chain 0, 6 dBi Antenna

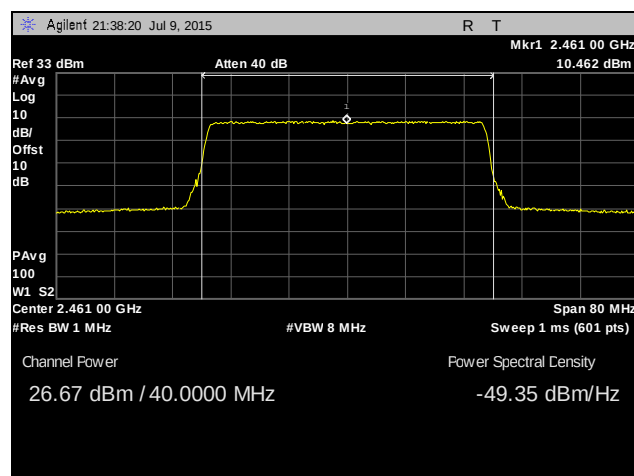
Peak Output Power Test Results, 40 MHz, Chain 1, 6 dBi Antenna



Plot 108. Peak Output Power, Low Channel, 40 MHz, Chain 1, 6 dBi Antenna

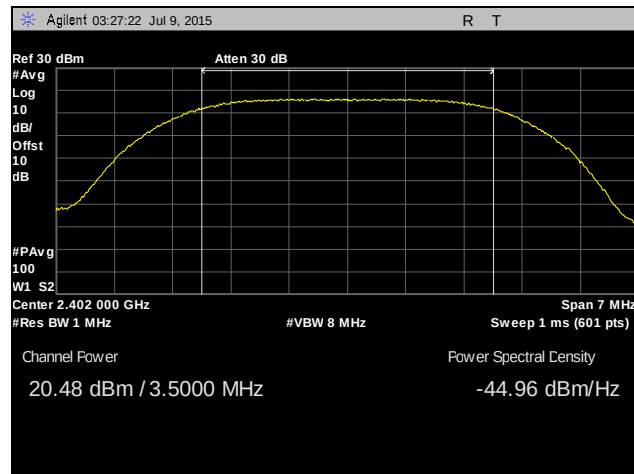


Plot 109. Peak Output Power, Mid Channel, 40 MHz, Chain 1, 6 dBi Antenna

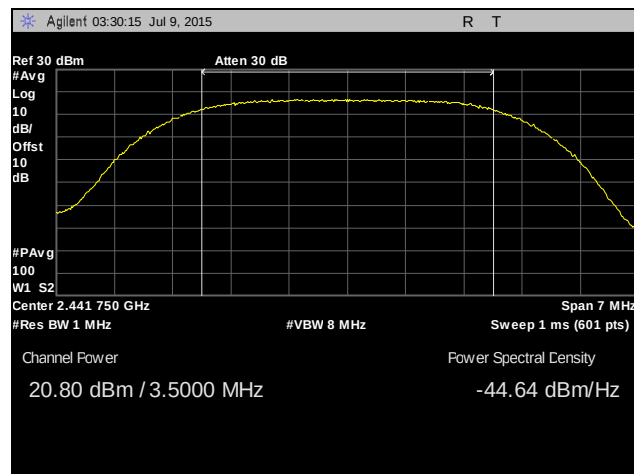


Plot 110. Peak Output Power, High Channel, 40 MHz, Chain 1, 6 dBi Antenna

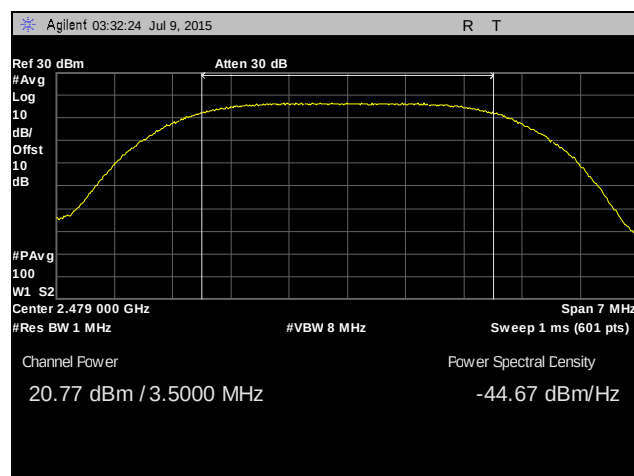
Peak Output Power Test Results, 3.5 MHz, Chain 0, 24 dBi Antenna



Plot 111. Peak Output Power, Low Channel, 3.5 MHz, Chain 0, 24 dBi Antenna

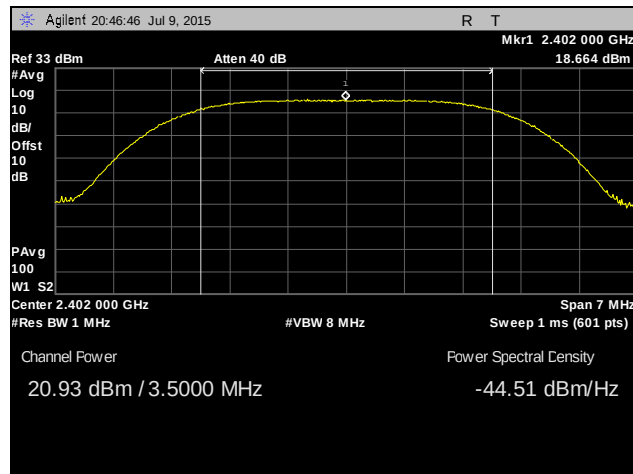


Plot 112. Peak Output Power, Mid Channel, 3.5 MHz, Chain 0, 24 dBi Antenna

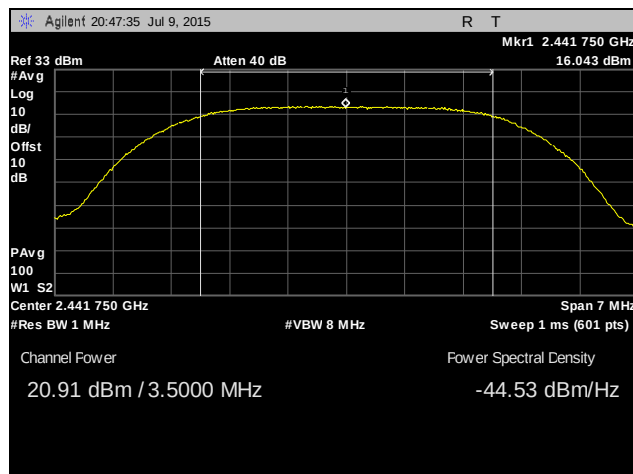


Plot 113. Peak Output Power, High Channel, 3.5 MHz, Chain 0, 24 dBi Antenna

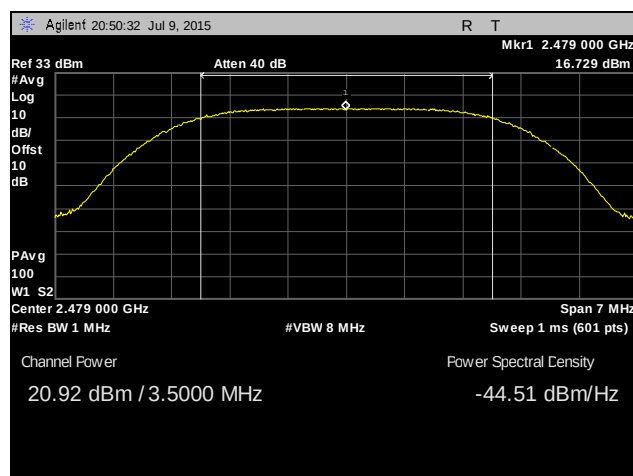
Peak Output Power Test Results, 3.5 MHz, Chain 1, 24 dBi Antenna



Plot 114. Peak Output Power, Low Channel, 3.5 MHz, Chain 1, 24 dBi Antenna

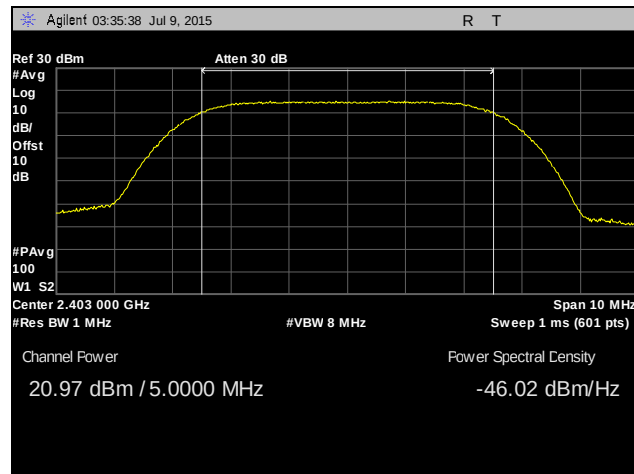


Plot 115. Peak Output Power, Mid Channel, 3.5 MHz, Chain 1, 24 dBi Antenna

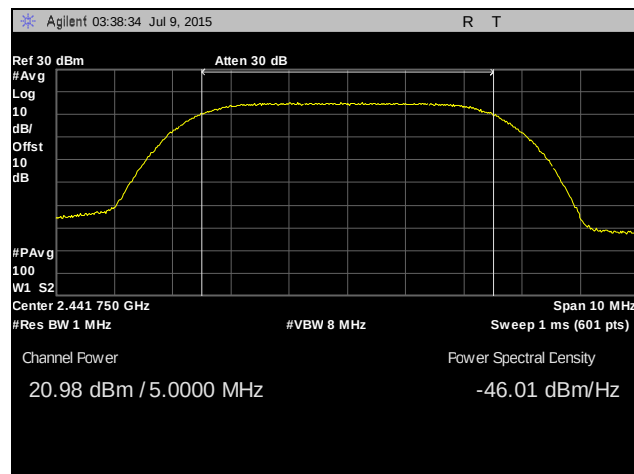


Plot 116. Peak Output Power, High Channel, 3.5 MHz, Chain 1, 24 dBi Antenna

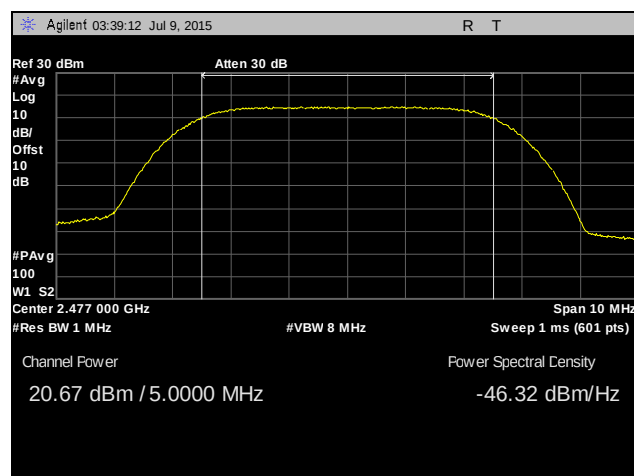
Peak Output Power Test Results, 5 MHz, Chain 0, 24 dBi Antenna



Plot 117. Peak Output Power, Low Channel, 5 MHz, Chain 0, 24 dBi Antenna

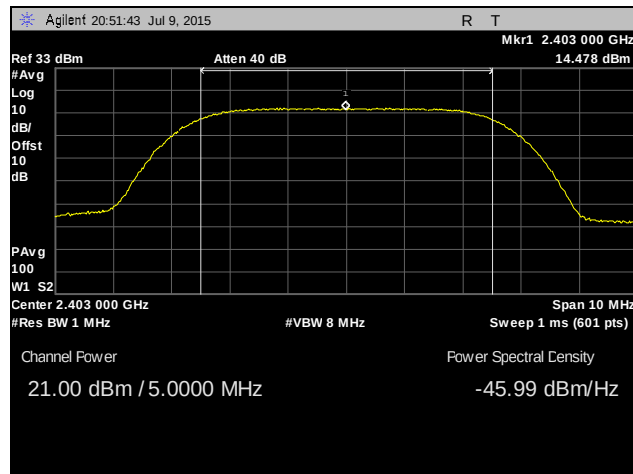


Plot 118. Peak Output Power, Mid Channel, 5 MHz, Chain 0, 24 dBi Antenna

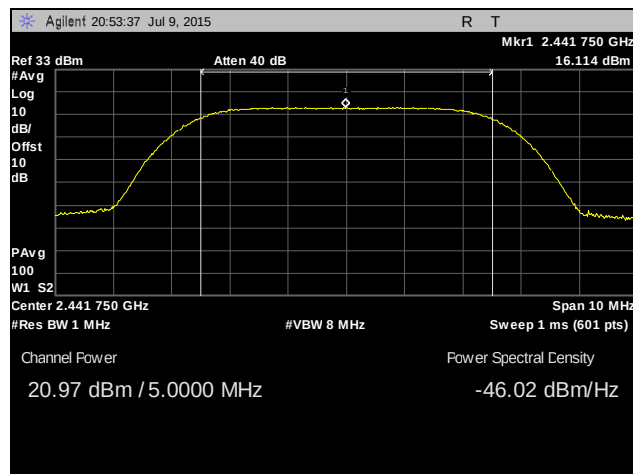


Plot 119. Peak Output Power, High Channel, 5 MHz, Chain 0, 24 dBi Antenna

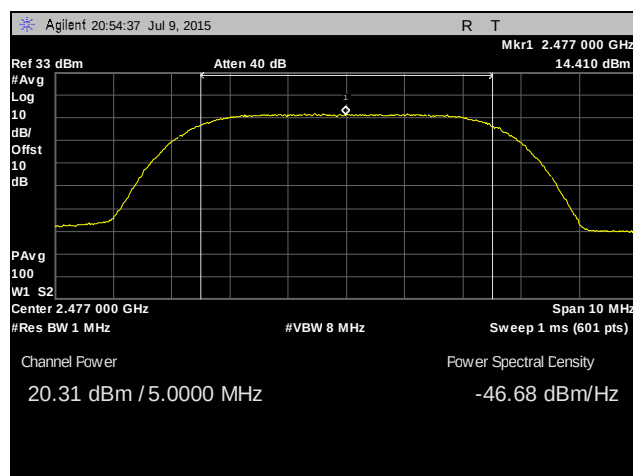
Peak Output Power Test Results, 5 MHz, Chain 1, 24 dBi Antenna



Plot 120. Peak Output Power, Low Channel, 5 MHz, Chain 1, 24 dBi Antenna

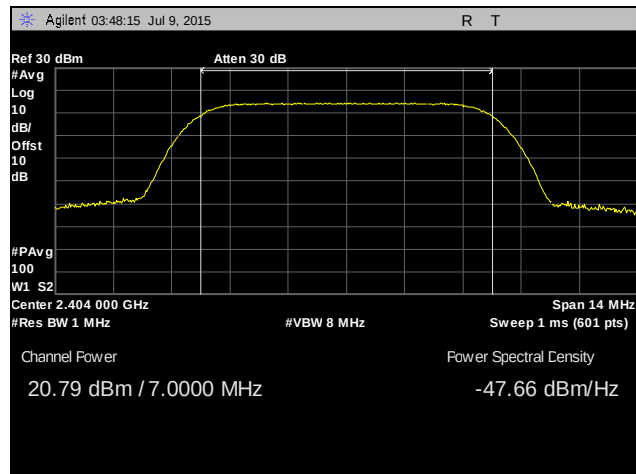


Plot 121. Peak Output Power, Mid Channel, 5 MHz, Chain 1, 24 dBi Antenna

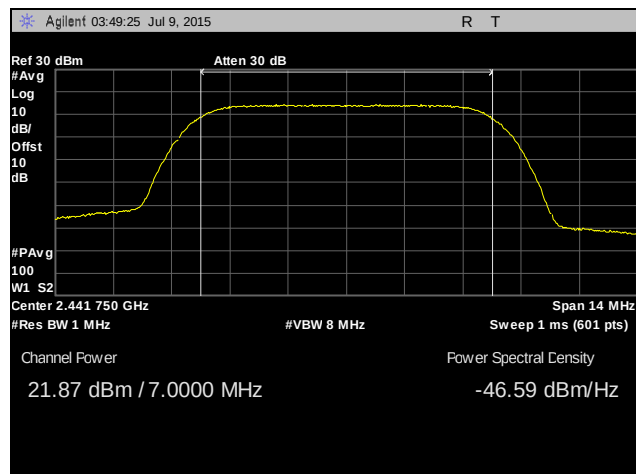


Plot 122. Peak Output Power, High Channel, 5 MHz, Chain 1, 24 dBi Antenna

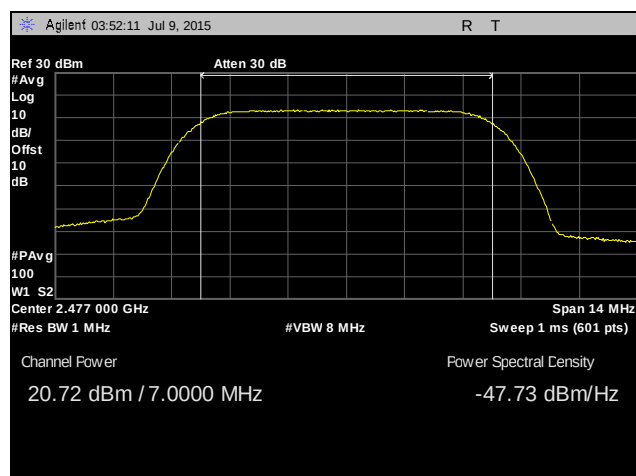
Peak Output Power Test Results, 7 MHz, Chain 0, 24 dBi Antenna



Plot 123. Peak Output Power, Low Channel, 7 MHz, Chain 0, 24 dBi Antenna

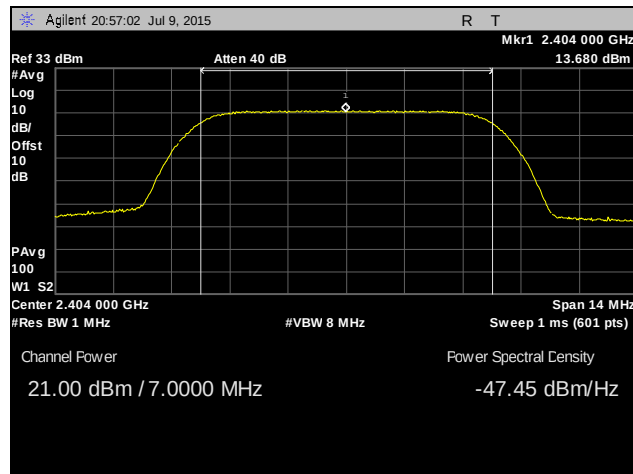


Plot 124. Peak Output Power, Mid Channel, 7 MHz, Chain 0, 24 dBi Antenna

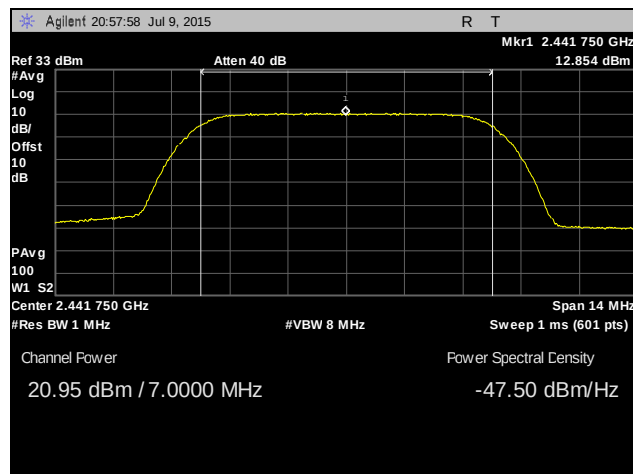


Plot 125. Peak Output Power, High Channel, 7 MHz, Chain 0, 24 dBi Antenna

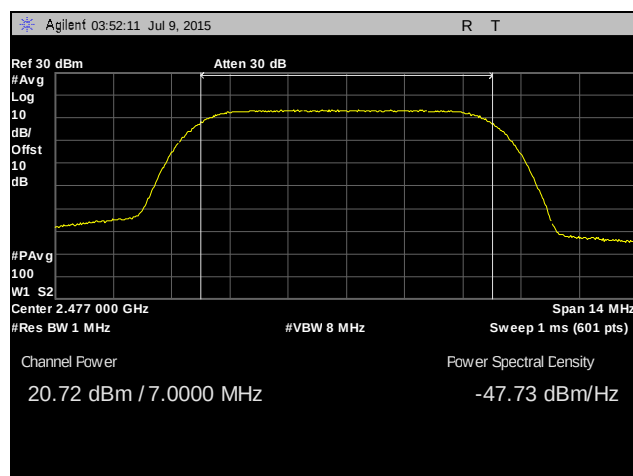
Peak Output Power Test Results, 7 MHz, Chain 1, 24 dBi Antenna



Plot 126. Peak Output Power, Low Channel, 7 MHz, Chain 1, 24 dBi Antenna

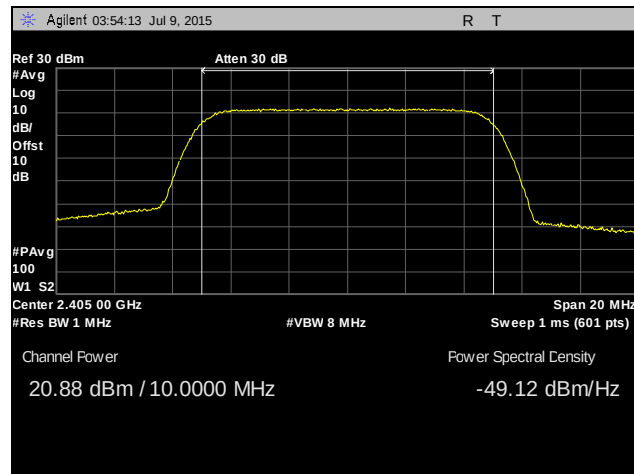


Plot 127. Peak Output Power, Mid Channel, 7 MHz, Chain 1, 24 dBi Antenna

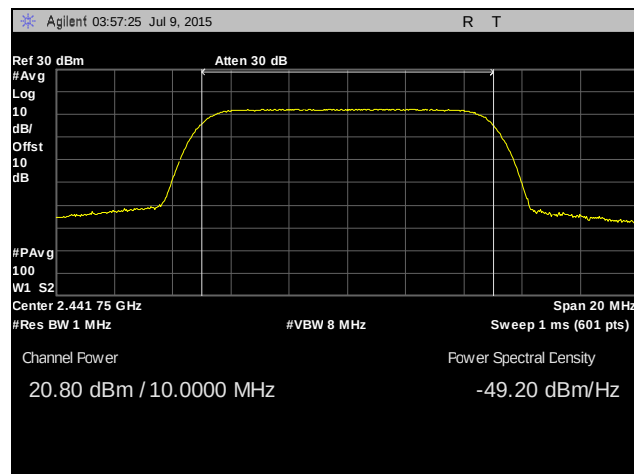


Plot 128. Peak Output Power, High Channel, 7 MHz, Chain 1, 24 dBi Antenna

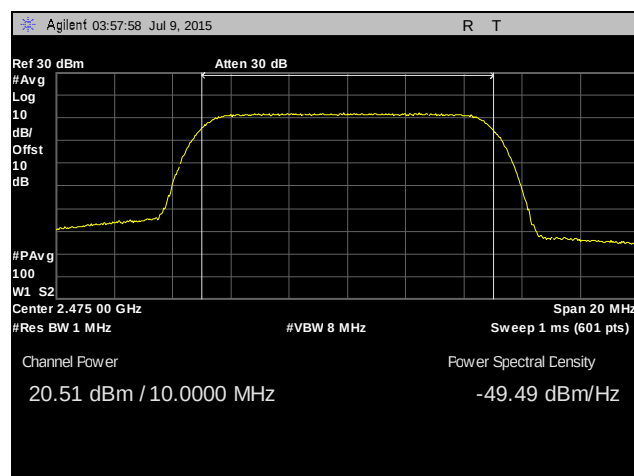
Peak Output Power Test Results, 10 MHz, Chain 0, 24 dBi Antenna



Plot 129. Peak Output Power, Low Channel, 10 MHz, Chain 0, 24 dBi Antenna

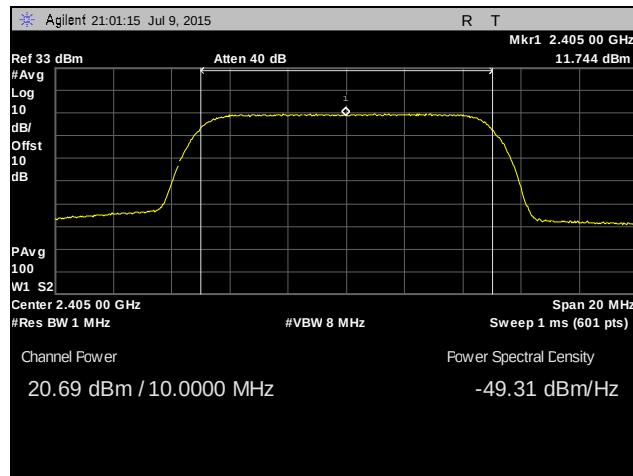


Plot 130. Peak Output Power, Mid Channel, 10 MHz, Chain 0, 24 dBi Antenna

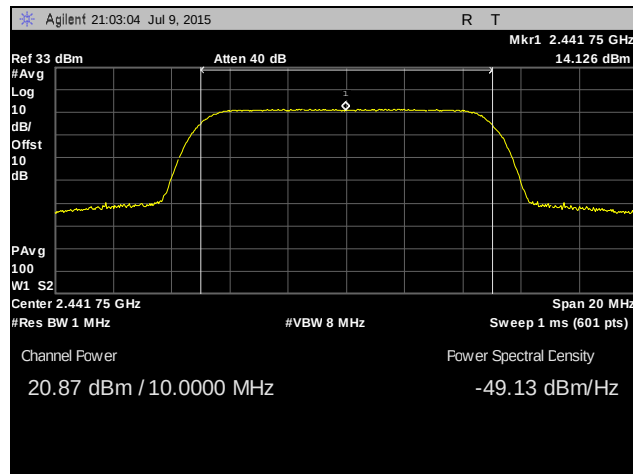


Plot 131. Peak Output Power, High Channel, 10 MHz, Chain 0, 24 dBi Antenna

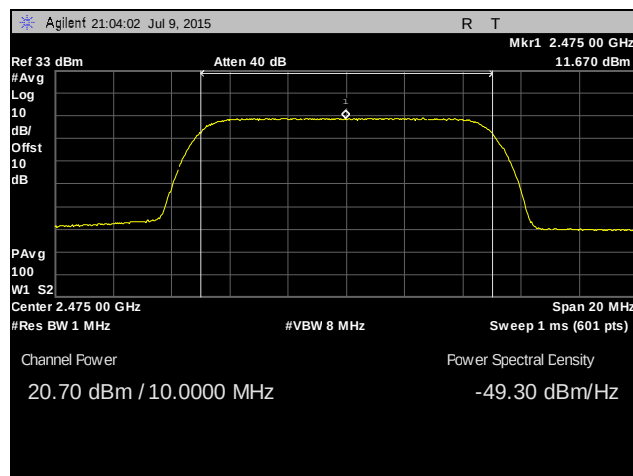
Peak Output Power Test Results, 10 MHz, Chain 1, 24 dBi Antenna



Plot 132. Peak Output Power, Low Channel, 10 MHz, Chain 1, 24 dBi Antenna

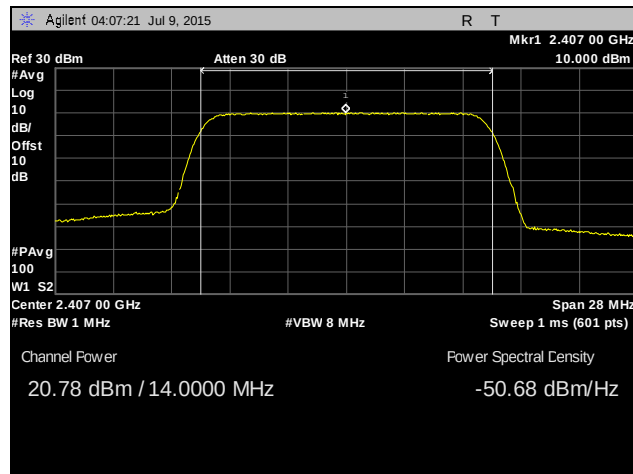


Plot 133. Peak Output Power, Mid Channel, 10 MHz, Chain 1, 24 dBi Antenna

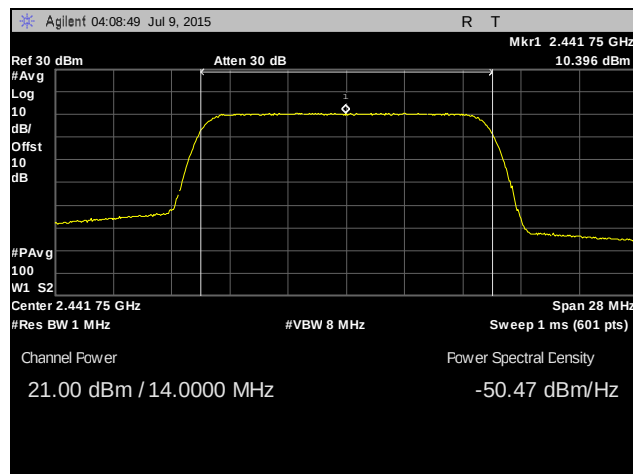


Plot 134. Peak Output Power, High Channel, 10 MHz, Chain 1, 24 dBi Antenna

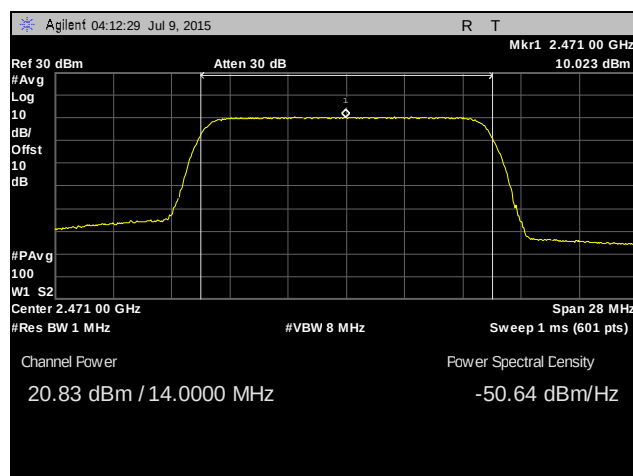
Peak Output Power Test Results, 14 MHz, Chain 0, 24 dBi Antenna



Plot 135. Peak Output Power, Low Channel, 14 MHz, Chain 0, 24 dBi Antenna

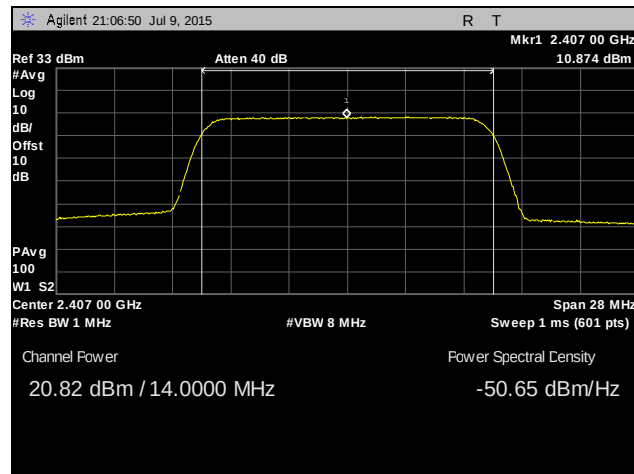


Plot 136. Peak Output Power, Mid Channel, 14 MHz, Chain 0, 24 dBi Antenna

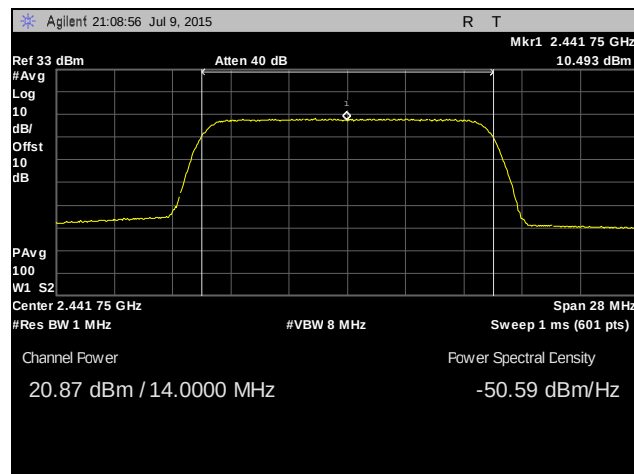


Plot 137. Peak Output Power, High Channel, 14 MHz, Chain 0, 24 dBi Antenna

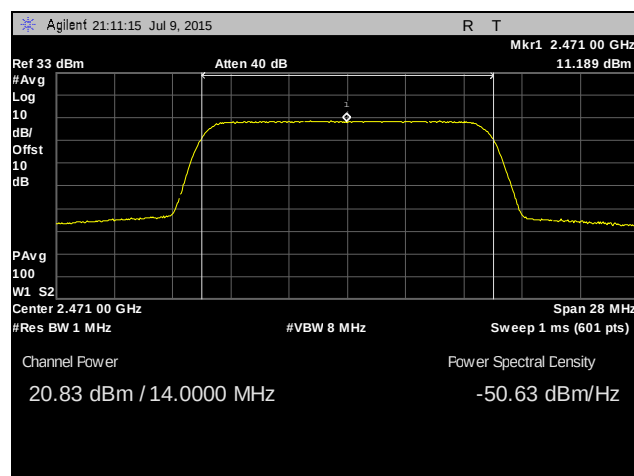
Peak Output Power Test Results, 14 MHz, Chain 1, 24 dBi Antenna



Plot 138. Peak Output Power, Low Channel, 14 MHz, Chain 1, 24 dBi Antenna

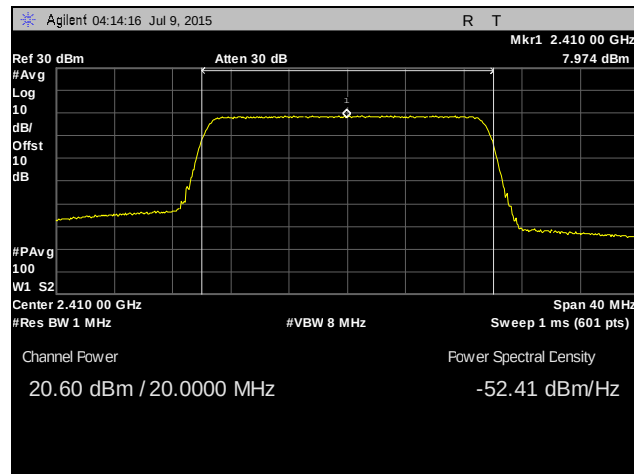


Plot 139. Peak Output Power, Mid Channel, 14 MHz, Chain 1, 24 dBi Antenna

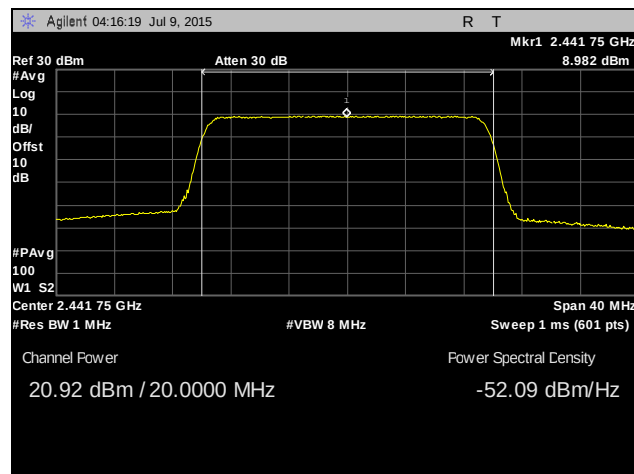


Plot 140. Peak Output Power, High Channel, 14 MHz, Chain 1, 24 dBi Antenna

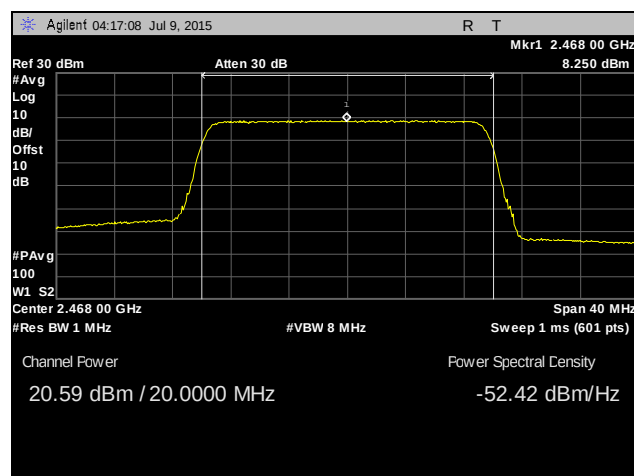
Peak Output Power Test Results, 20 MHz, Chain 0, 24 dBi Antenna



Plot 141. Peak Output Power, Low Channel, 20 MHz, Chain 0, 24 dBi Antenna

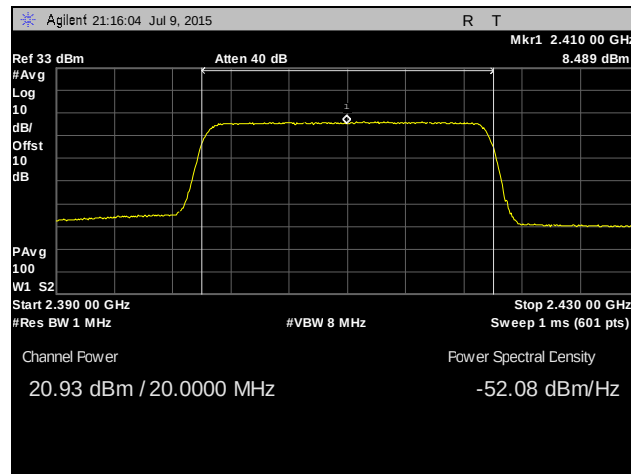


Plot 142. Peak Output Power, Mid Channel, 20 MHz, Chain 0, 24 dBi Antenna

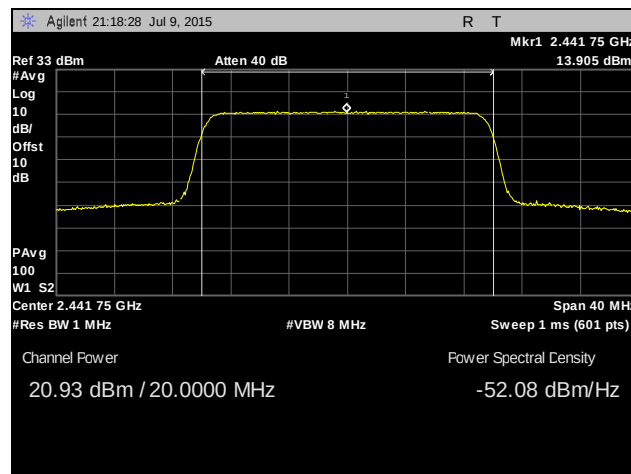


Plot 143. Peak Output Power, High Channel, 20 MHz, Chain 0, 24 dBi Antenna

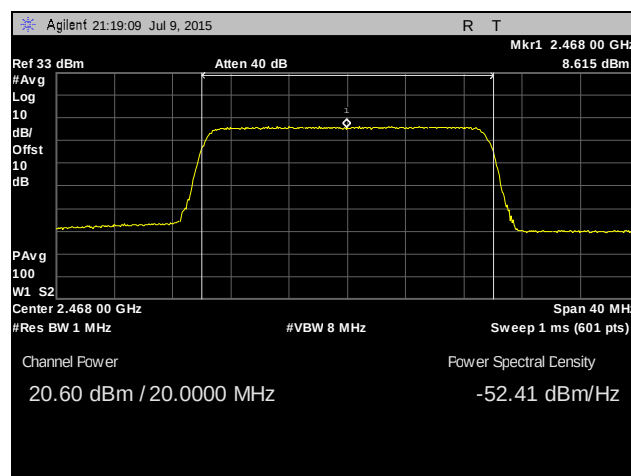
Peak Output Power Test Results, 20 MHz, Chain 1, 24 dBi Antenna



Plot 144. Peak Output Power, Low Channel, 20 MHz, Chain 1, 24 dBi Antenna

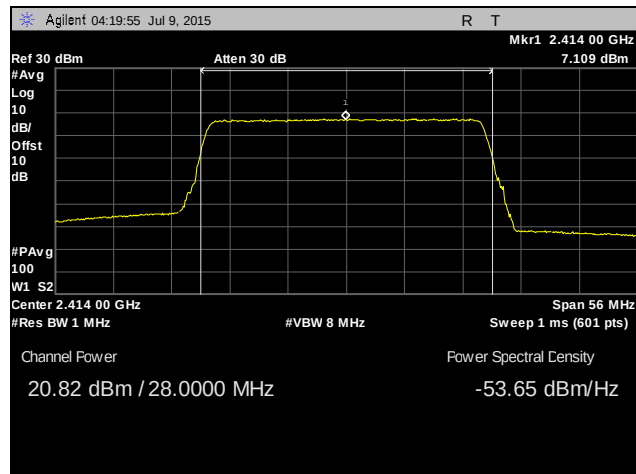


Plot 145. Peak Output Power, Mid Channel, 20 MHz, Chain 1, 24 dBi Antenna

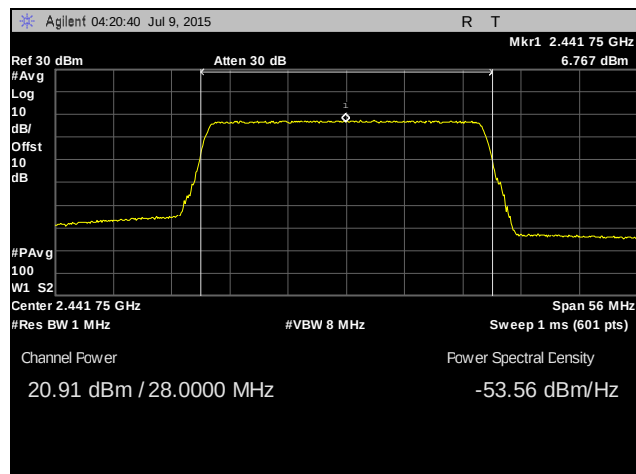


Plot 146. Peak Output Power, High Channel, 20 MHz, Chain 1, 24 dBi Antenna

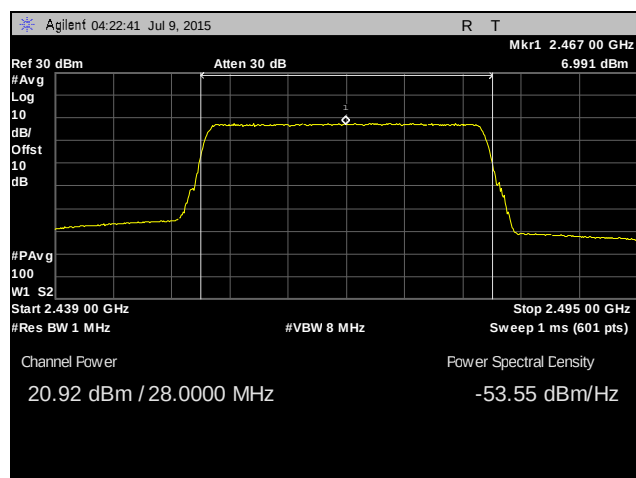
Peak Output Power Test Results, 28 MHz, Chain 0, 24 dBi Antenna



Plot 147. Peak Output Power, Low Channel, 28 MHz, Chain 0, 24 dBi Antenna

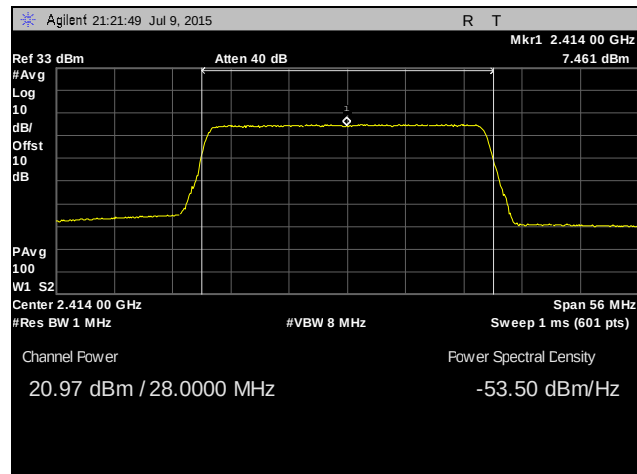


Plot 148. Peak Output Power, Mid Channel, 28 MHz, Chain 0, 24 dBi Antenna

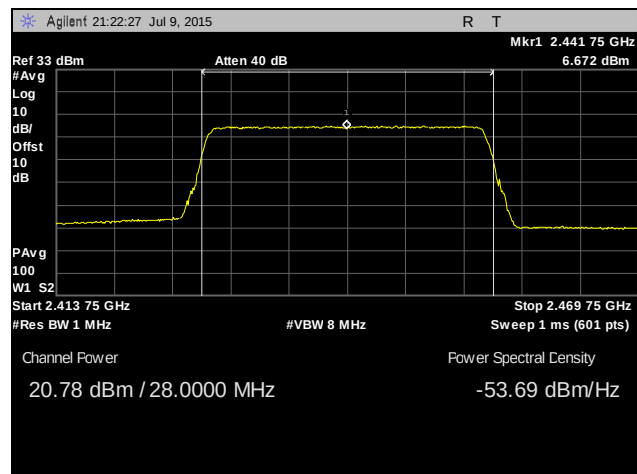


Plot 149. Peak Output Power, High Channel, 28 MHz, Chain 0, 24 dBi Antenna

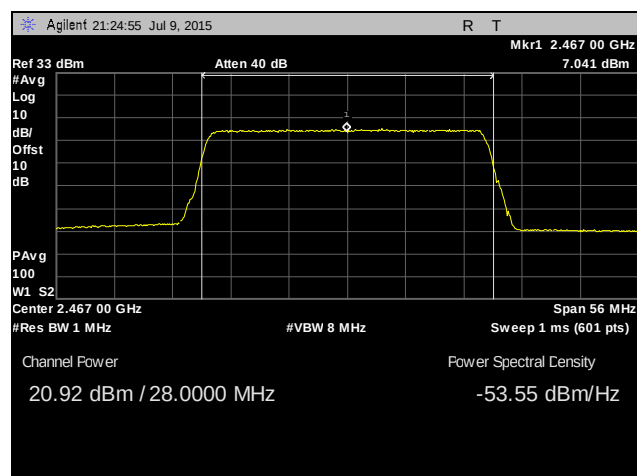
Peak Output Power Test Results, 28 MHz, Chain 1, 24 dBi Antenna



Plot 150. Peak Output Power, Low Channel, 28 MHz, Chain 1, 24 dBi Antenna

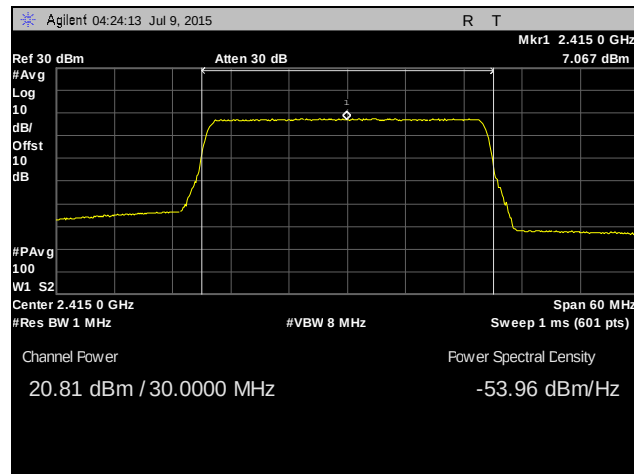


Plot 151. Peak Output Power, Mid Channel, 28 MHz, Chain 1, 24 dBi Antenna

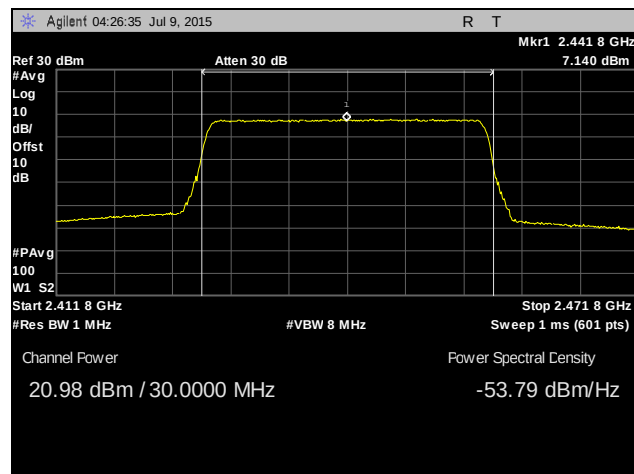


Plot 152. Peak Output Power, High Channel, 28 MHz, Chain 1, 24 dBi Antenna

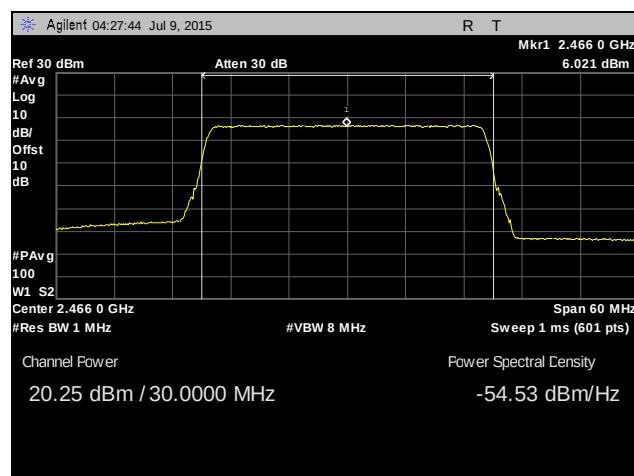
Peak Output Power Test Results, 30 MHz, Chain 0, 24 dBi Antenna



Plot 153. Peak Output Power, Low Channel, 30 MHz, Chain 0, 24 dBi Antenna

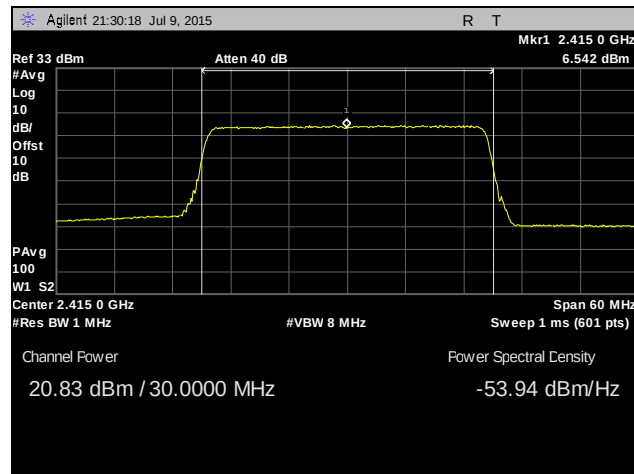


Plot 154. Peak Output Power, Mid Channel, 30 MHz, Chain 0, 24 dBi Antenna

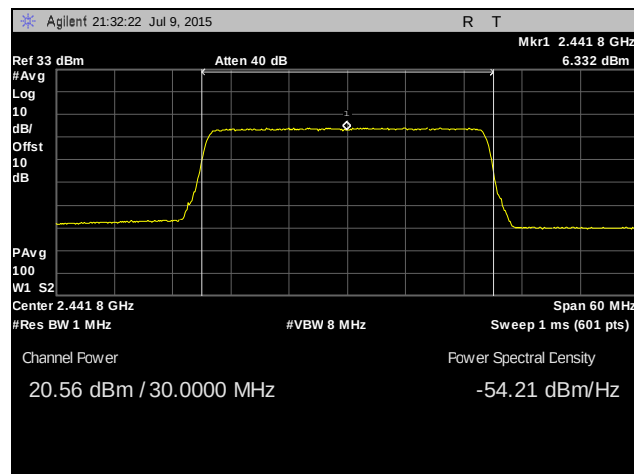


Plot 155. Peak Output Power, High Channel, 30 MHz, Chain 0, 24 dBi Antenna

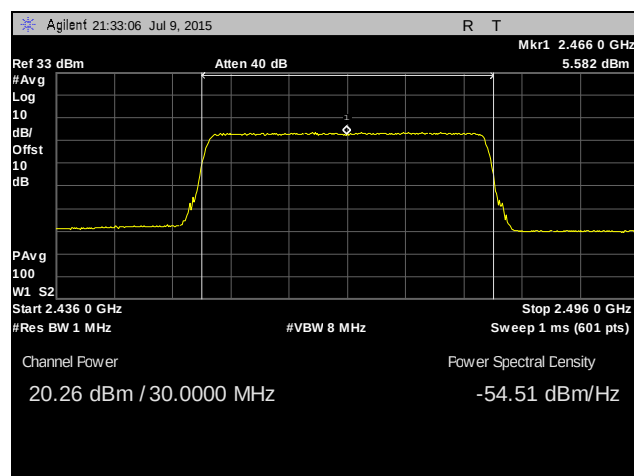
Peak Output Power Test Results, 30 MHz, Chain 1, 24 dBi Antenna



Plot 156. Peak Output Power, Low Channel, 30 MHz, Chain 1, 24 dBi Antenna

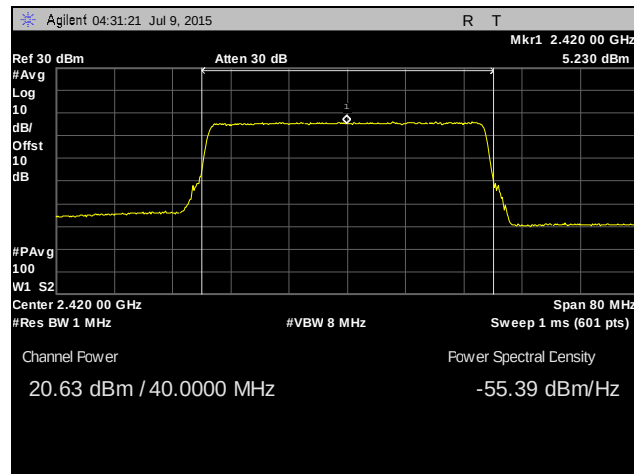


Plot 157. Peak Output Power, Mid Channel, 30 MHz, Chain 1, 24 dBi Antenna

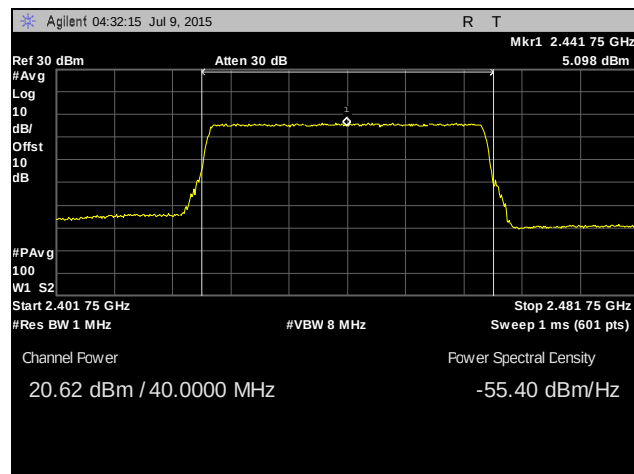


Plot 158. Peak Output Power, High Channel, 30 MHz, Chain 1, 24 dBi Antenna

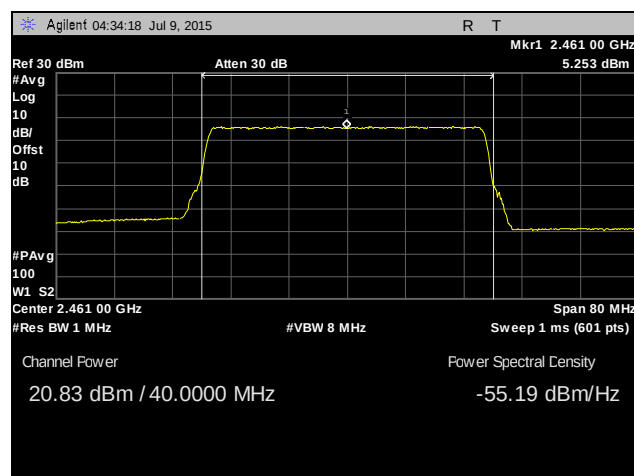
Peak Output Power Test Results, 40 MHz, Chain 0, 24 dBi Antenna



Plot 159. Peak Output Power, Low Channel, 40 MHz, Chain 0, 24 dBi Antenna

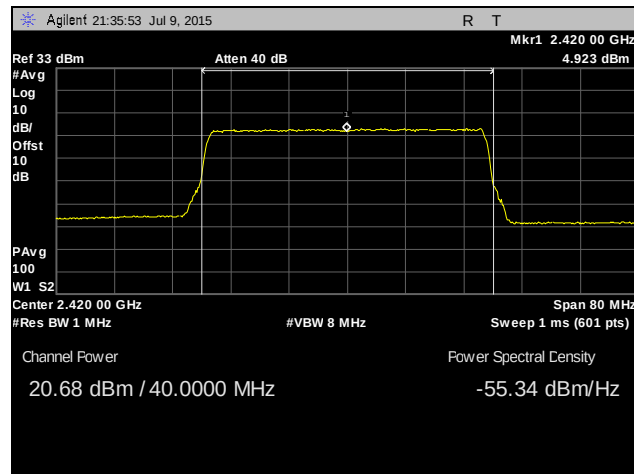


Plot 160. Peak Output Power, Mid Channel, 40 MHz, Chain 0, 24 dBi Antenna

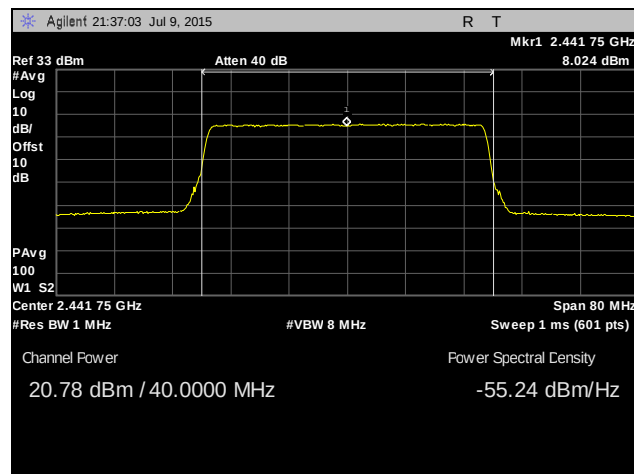


Plot 161. Peak Output Power, High Channel, 40 MHz, Chain 0, 24 dBi Antenna

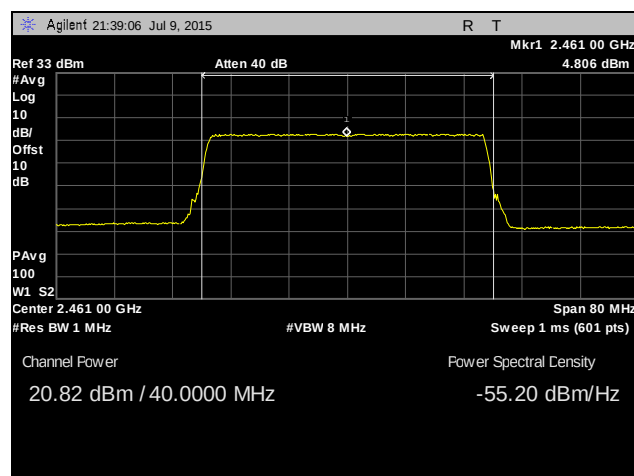
Peak Output Power Test Results, 40 MHz, Chain 1, 24 dBi Antenna



Plot 162. Peak Output Power, Low Channel, 40 MHz, Chain 1, 24 dBi Antenna



Plot 163. Peak Output Power, Mid Channel, 40 MHz, Chain 1, 24 dBi Antenna



Plot 164. Peak Output Power, High Channel, 40 MHz, Chain 1, 24 dBi Antenna

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(d) Radiated Spurious Emissions Requirements and Band Edge

Test Requirements: §15.247(d); §15.205: Emissions outside the frequency band.

§15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a).

§15.205(a): Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090–0.110-----	16.42–16.423	399.9–410	4.5–5.15
¹ 0.495–0.505-----	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905-----	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128-----	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775-----	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775-----	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218-----	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825-----	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225-----	123–138	2200–2300	14.47–14.5
8.291–8.294-----	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366-----	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675-----	156.7–156.9	2655–2900	22.01–23.12
8.41425–8.41475-----	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293-----	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025-----	240–285	3345.8–3358 36.	43–36.5
12.57675–12.57725-----	322–335.4	3600–4400	(²)

Table 13. Restricted Bands of Operation

¹ Until February 1, 1999, this restricted band shall be 0.490 – 0.510 MHz.

² Above 38.6

Test Requirement(s): § 15.209 (a): Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in Table 14.

Frequency (MHz)	§ 15.209(a), Radiated Emission Limits (dBµV) @ 3m
30 - 88	40.00
88 - 216	43.50
216 - 960	46.00
Above 960	54.00

Table 14. Radiated Emissions Limits Calculated from FCC Part 15, § 15.209 (a)

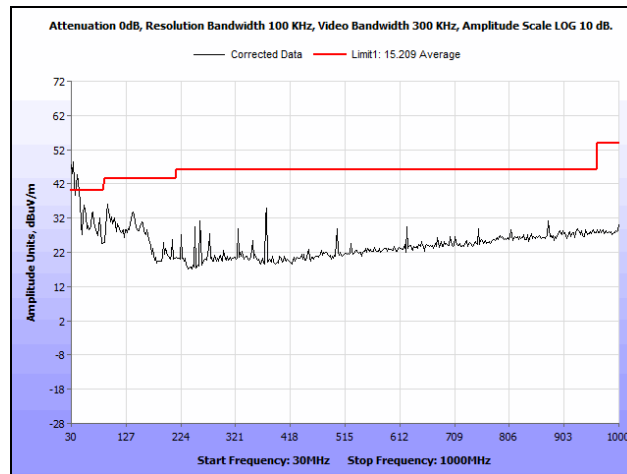
Test Procedures: The transmitter was turned on. Measurements were performed of the low, mid and high Channels. The EUT was rotated orthogonally through all three axes. Plots shown are corrected for both antenna correction factor and distance and compared to a 3 m limit line. Only noise floor was measured above 18 GHz.

Test Results: The EUT was compliant with the Radiated Spurious Emission limits of § 15.247(d).

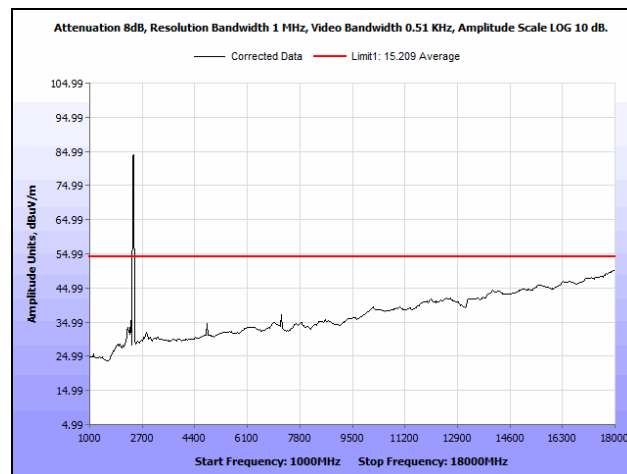
Test Engineer(s): Djed Mouada

Test Date(s): 07/13/15

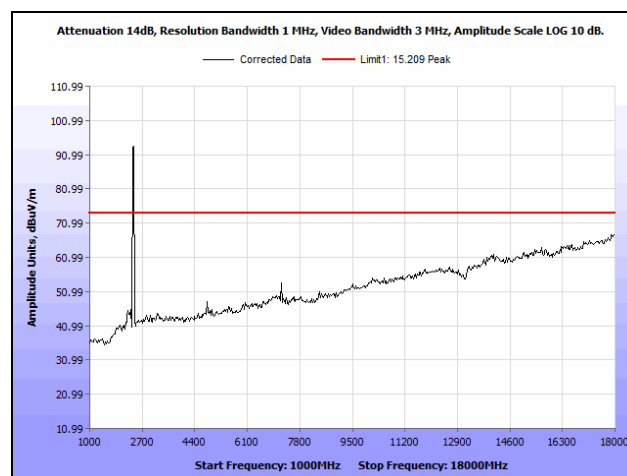
Radiated Spurious Emissions Test Results, 3.5 MHz, 6 dBi Antenna



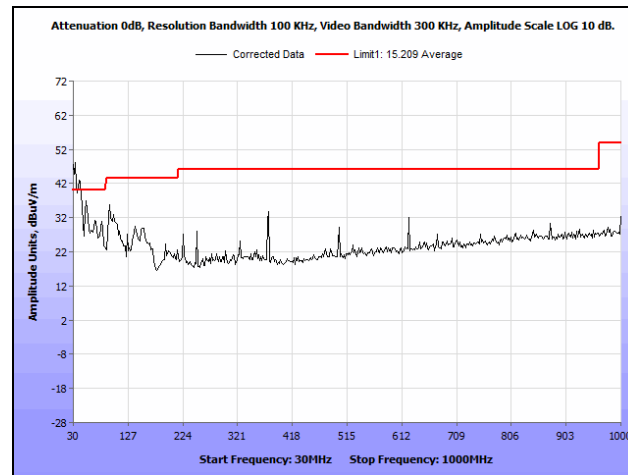
Plot 165. Radiated Spurious Emissions, Low Channel, 3.5 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



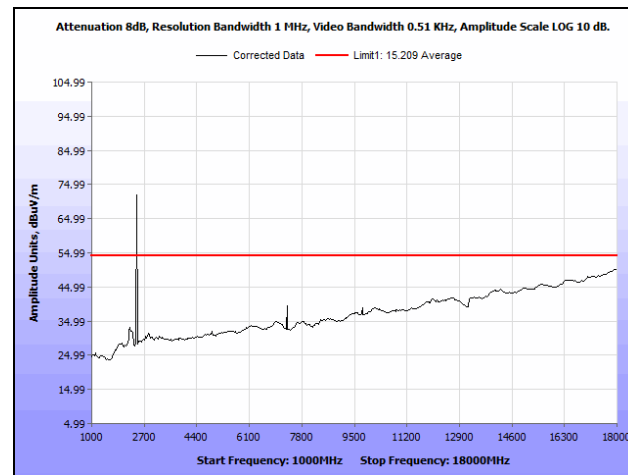
Plot 166. Radiated Spurious Emissions, Low Channel, 3.5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



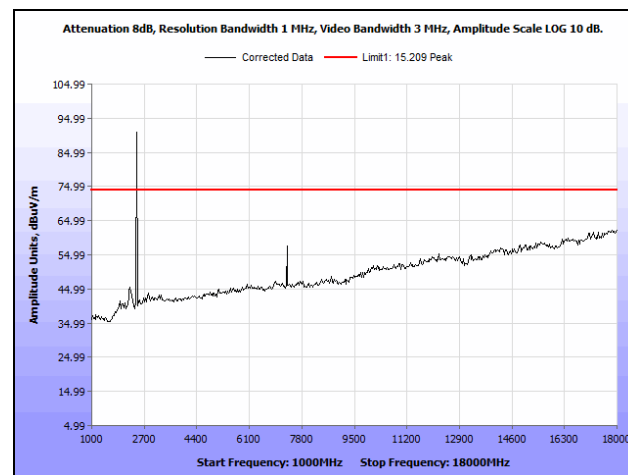
Plot 167. Radiated Spurious Emissions, Low Channel, 3.5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



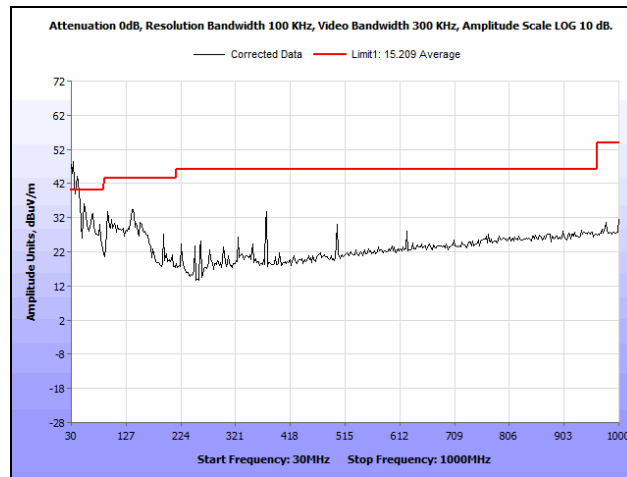
Plot 168. Radiated Spurious Emissions, Mid Channel, 3.5 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



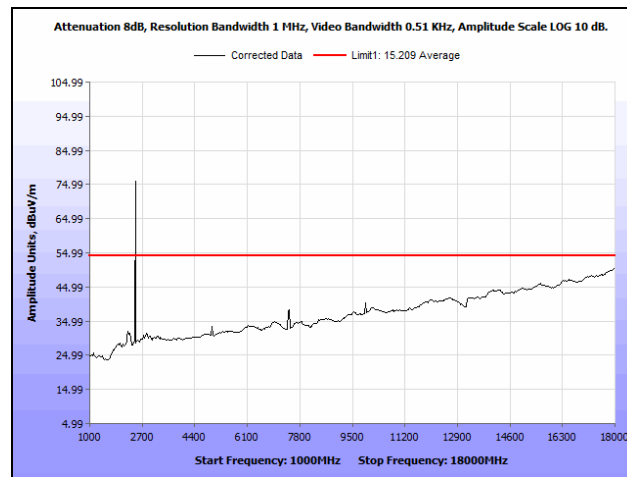
Plot 169. Radiated Spurious Emissions, Mid Channel, 3.5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



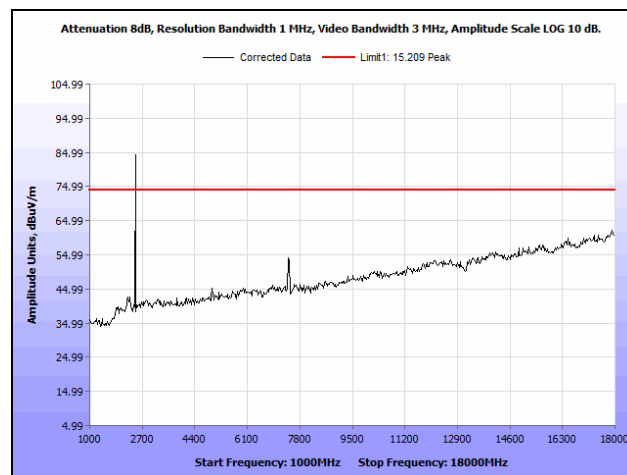
Plot 170. Radiated Spurious Emissions, Mid Channel, 3.5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 171. Radiated Spurious Emissions, High Channel, 3.5 MHz, 6 dBi Antenna, 30 MHz - 1 GHz

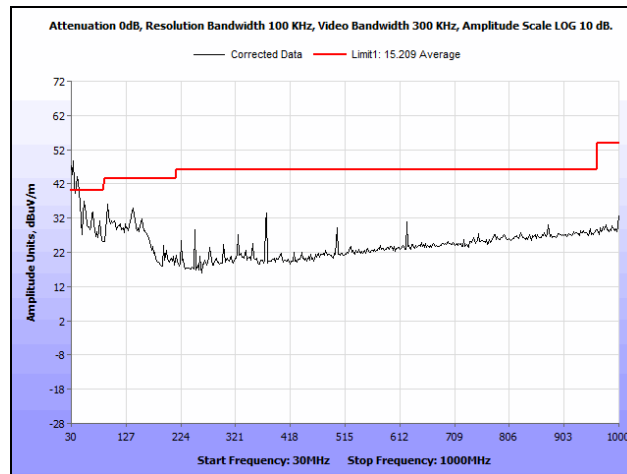


Plot 172. Radiated Spurious Emissions, High Channel, 3.5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average

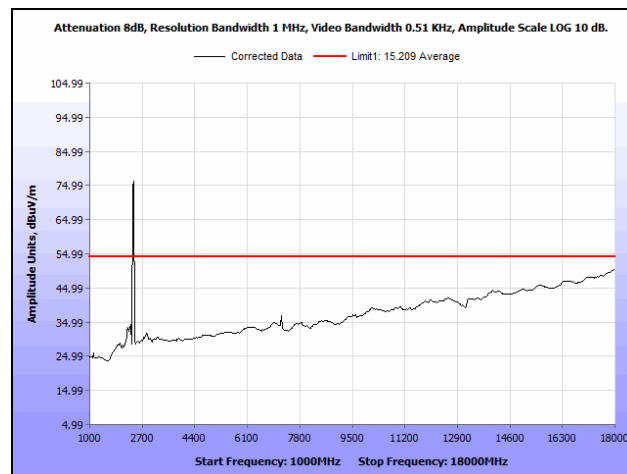


Plot 173. Radiated Spurious Emissions, High Channel, 3.5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak

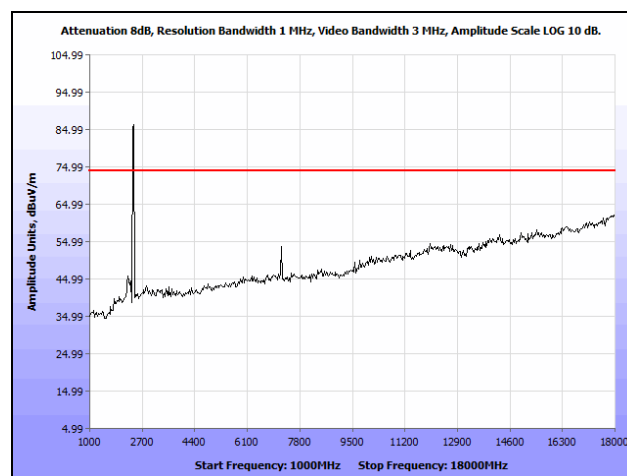
Radiated Spurious Emissions Test Results, 5 MHz, 6 dBi Antenna



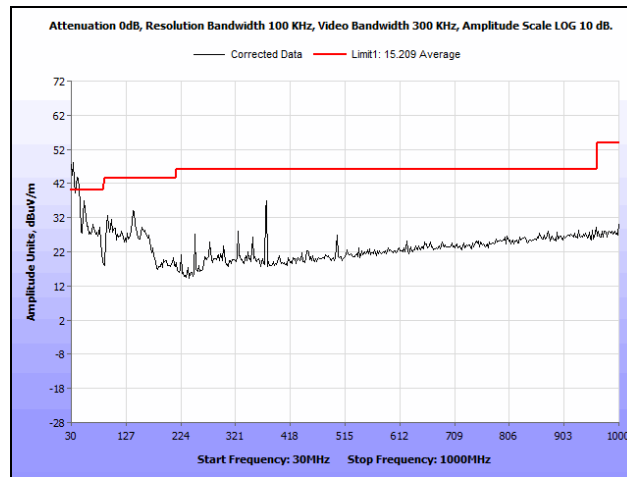
Plot 174. Radiated Spurious Emissions, Low Channel, 5 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



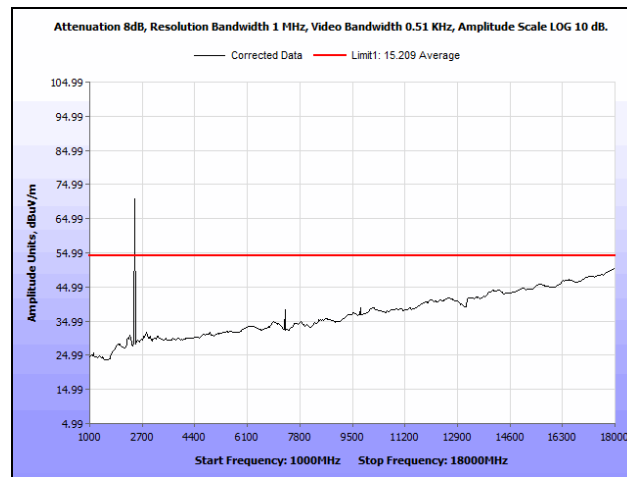
Plot 175. Radiated Spurious Emissions, Low Channel, 5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



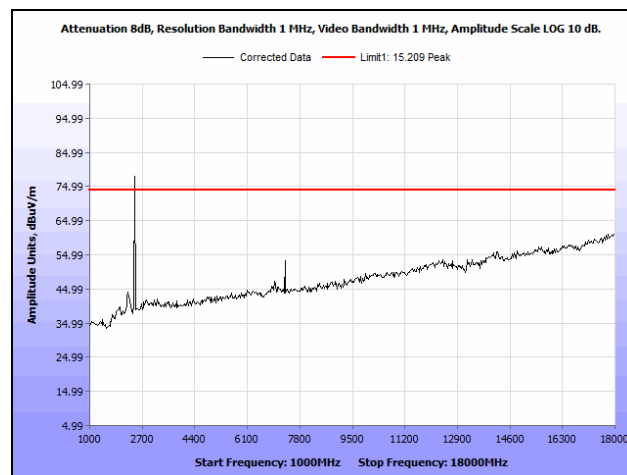
Plot 176. Radiated Spurious Emissions, Low Channel, 5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



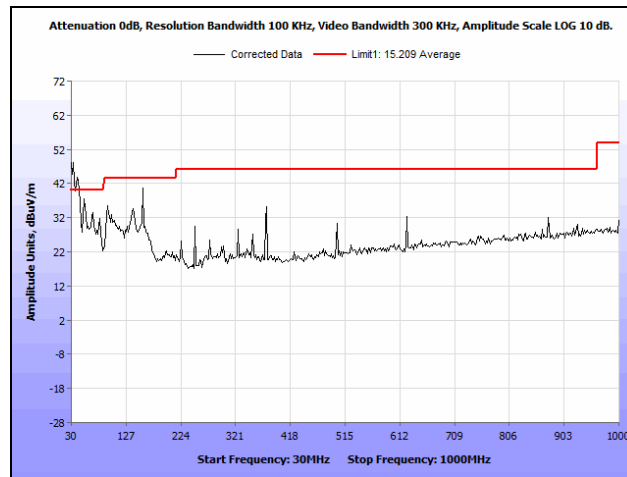
Plot 177. Radiated Spurious Emissions, Mid Channel, 5 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



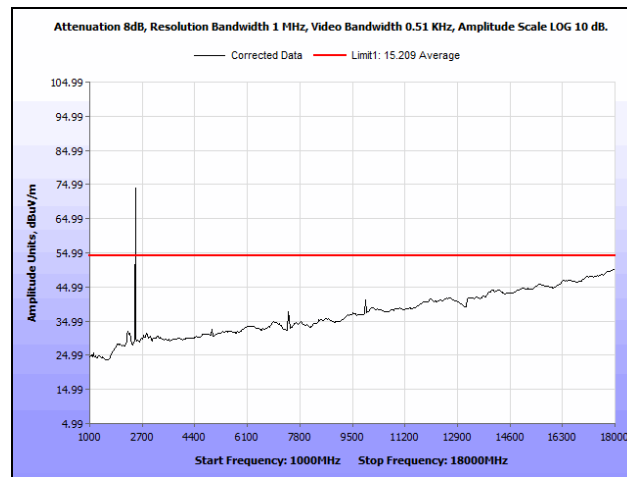
Plot 178. Radiated Spurious Emissions, Mid Channel, 5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



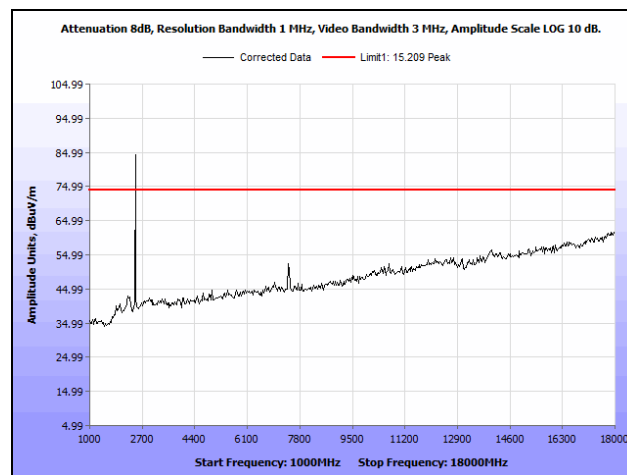
Plot 179. Radiated Spurious Emissions, Mid Channel, 5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 180. Radiated Spurious Emissions, High Channel, 5 MHz, 6 dBi Antenna, 30 MHz - 1 GHz

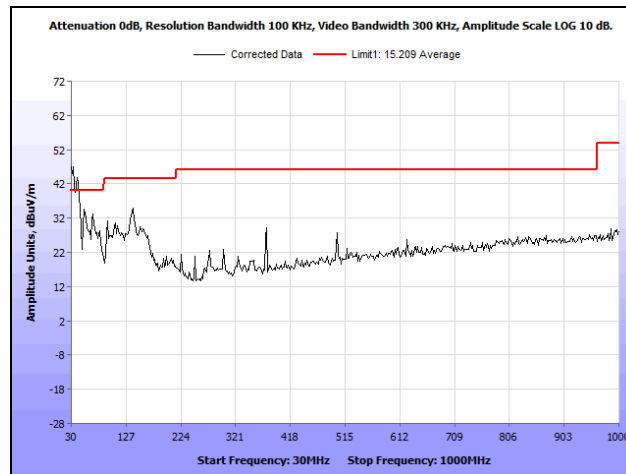


Plot 181. Radiated Spurious Emissions, High Channel, 5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average

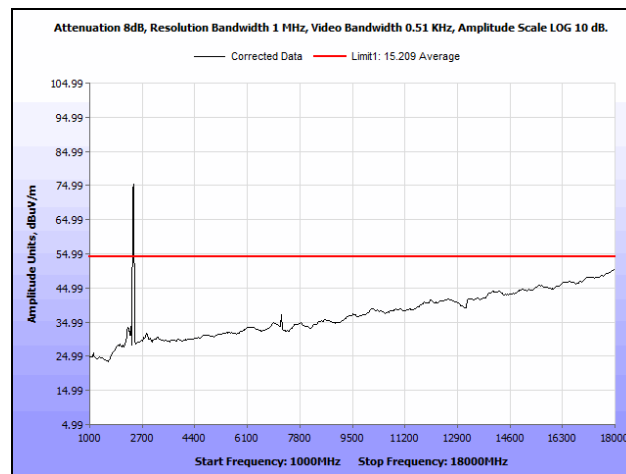


Plot 182. Radiated Spurious Emissions, High Channel, 5 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak

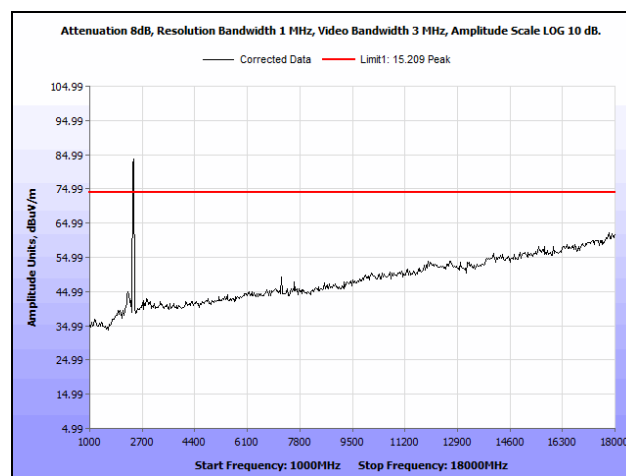
Radiated Spurious Emissions Test Results, 7 MHz, 6 dBi Antenna



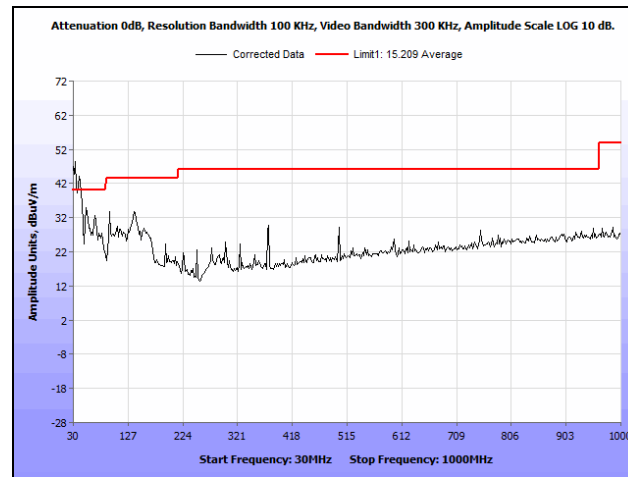
Plot 183. Radiated Spurious Emissions, Low Channel, 7 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



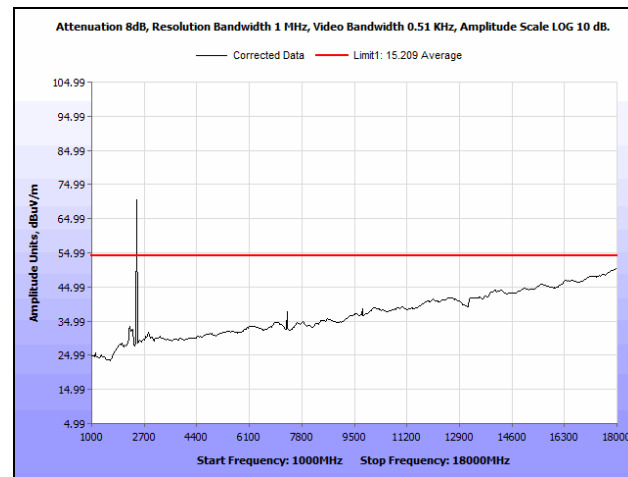
Plot 184. Radiated Spurious Emissions, Low Channel, 7 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



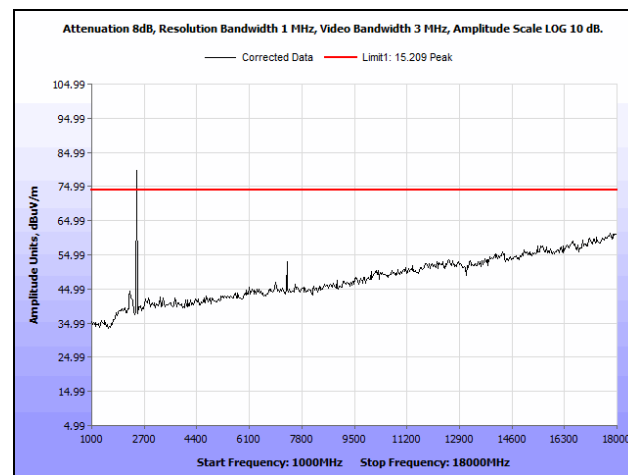
Plot 185. Radiated Spurious Emissions, Low Channel, 7 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



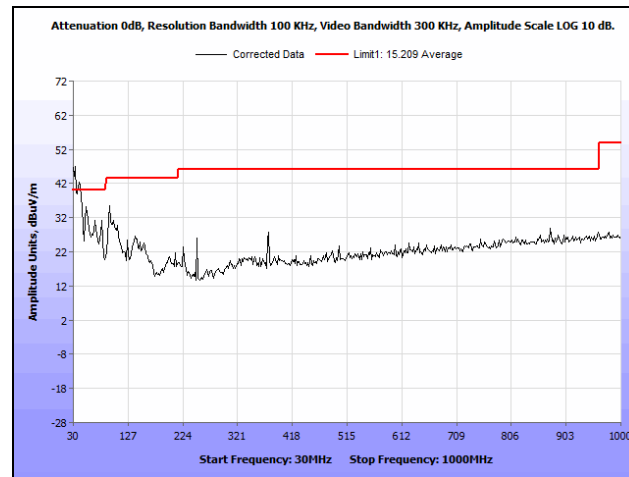
Plot 186. Radiated Spurious Emissions, Mid Channel, 7 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



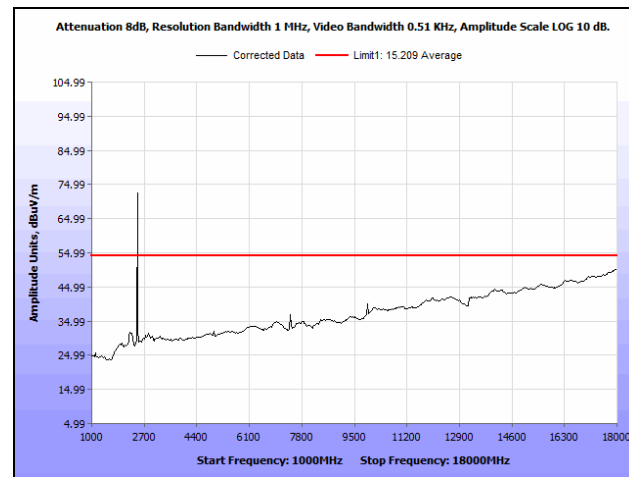
Plot 187. Radiated Spurious Emissions, Mid Channel, 7 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



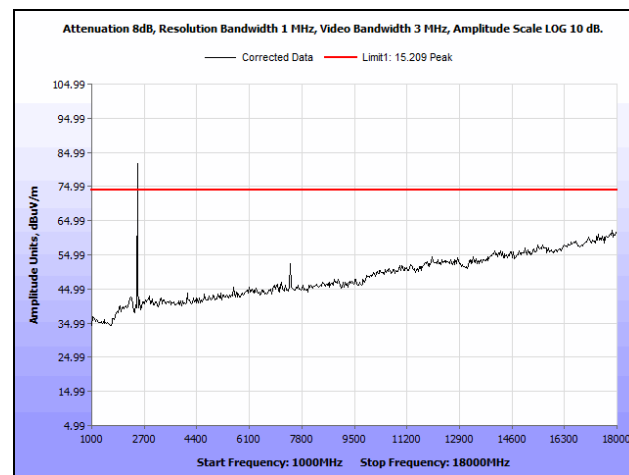
Plot 188. Radiated Spurious Emissions, Mid Channel, 7 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 189. Radiated Spurious Emissions, High Channel, 7 MHz, 6 dBi Antenna, 30 MHz - 1 GHz

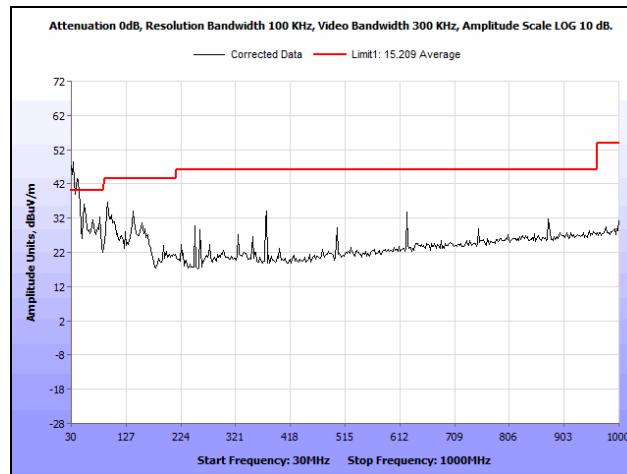


Plot 190. Radiated Spurious Emissions, High Channel, 7 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average

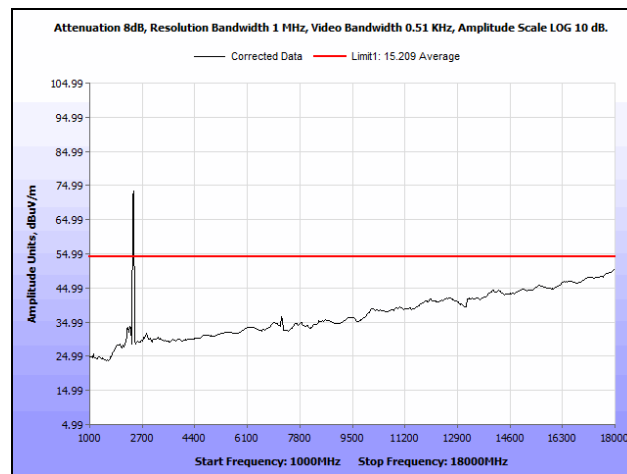


Plot 191. Radiated Spurious Emissions, High Channel, 7 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak

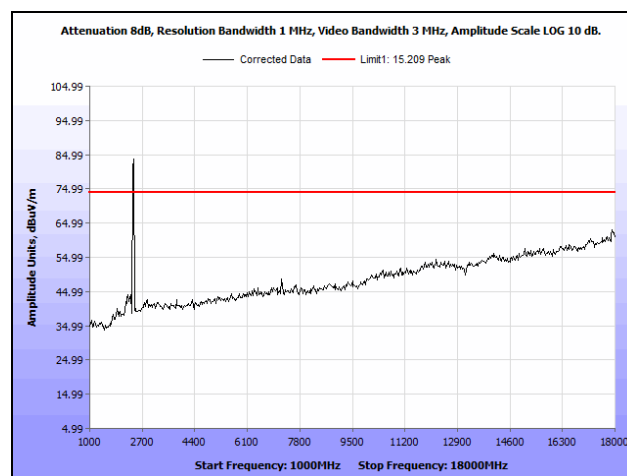
Radiated Spurious Emissions Test Results, 10 MHz, 6 dBi Antenna



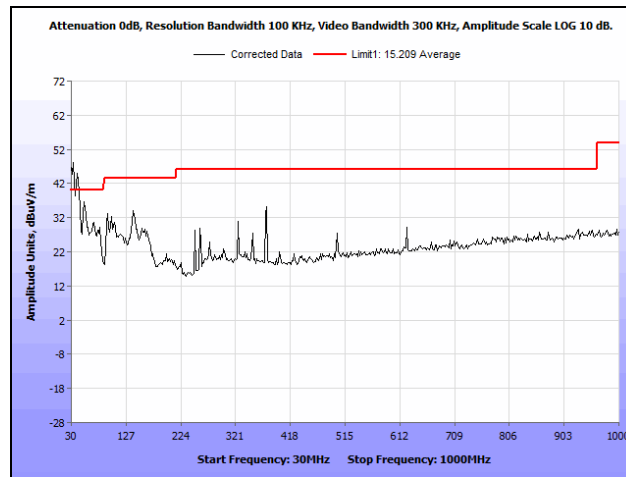
Plot 192. Radiated Spurious Emissions, Low Channel, 10 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



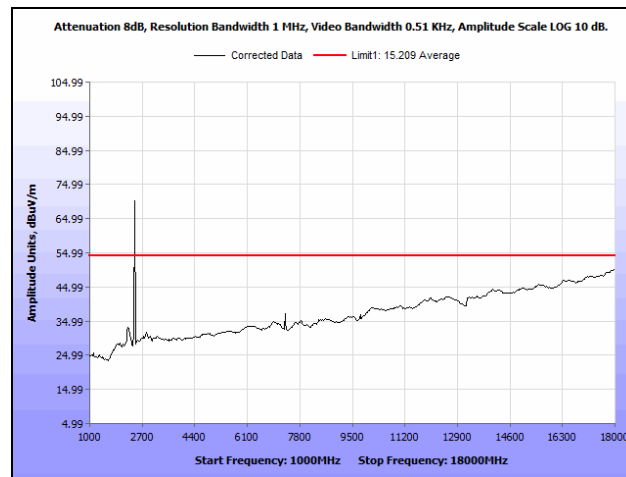
Plot 193. Radiated Spurious Emissions, Low Channel, 10 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



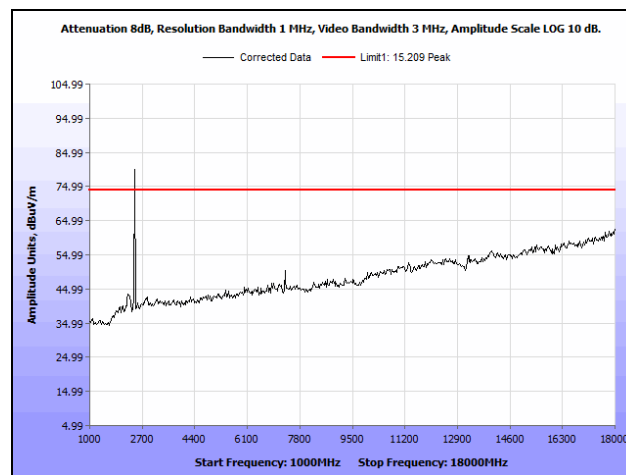
Plot 194. Radiated Spurious Emissions, Low Channel, 10 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



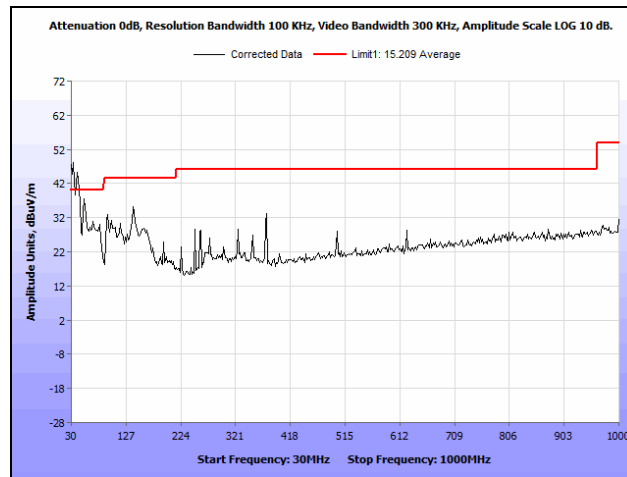
Plot 195. Radiated Spurious Emissions, Mid Channel, 10 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



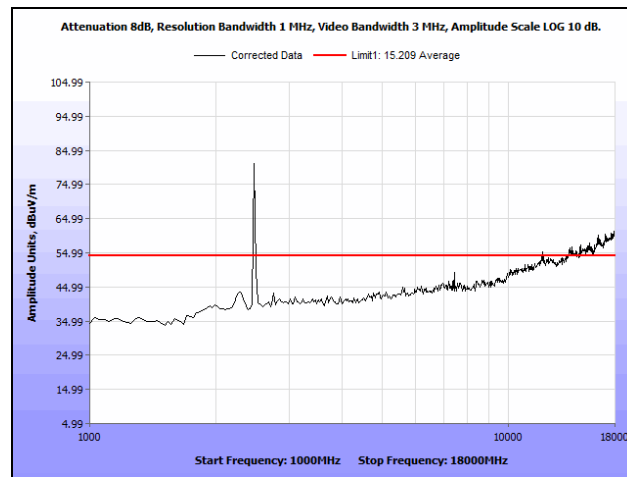
Plot 196. Radiated Spurious Emissions, Mid Channel, 10 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



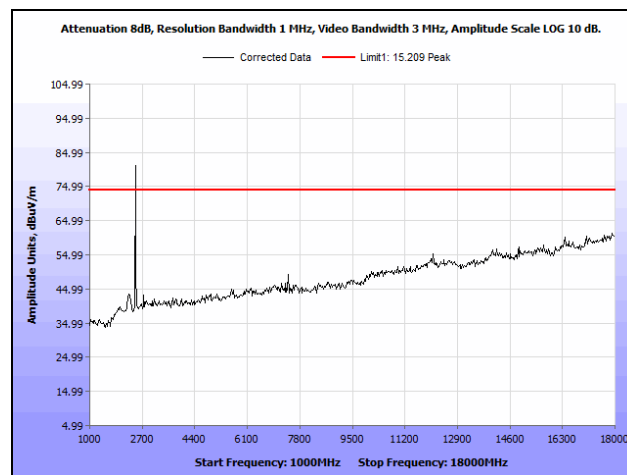
Plot 197. Radiated Spurious Emissions, Mid Channel, 10 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 198. Radiated Spurious Emissions, High Channel, 10 MHz, 6 dBi Antenna, 30 MHz - 1 GHz

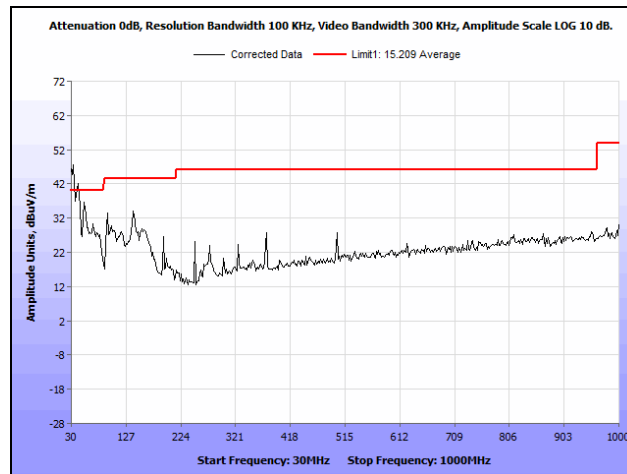


Plot 199. Radiated Spurious Emissions, High Channel, 10 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average

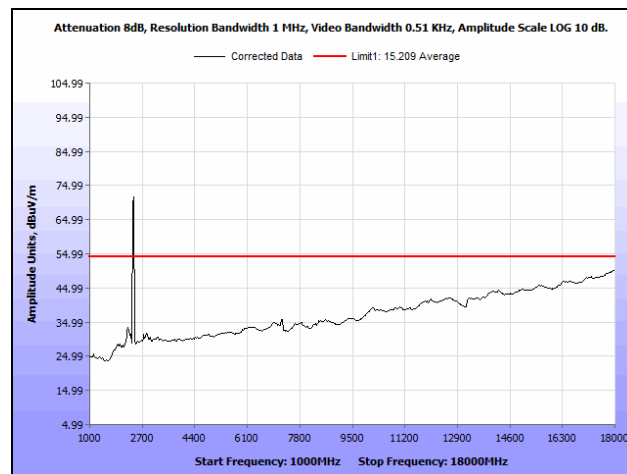


Plot 200. Radiated Spurious Emissions, High Channel, 10 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak

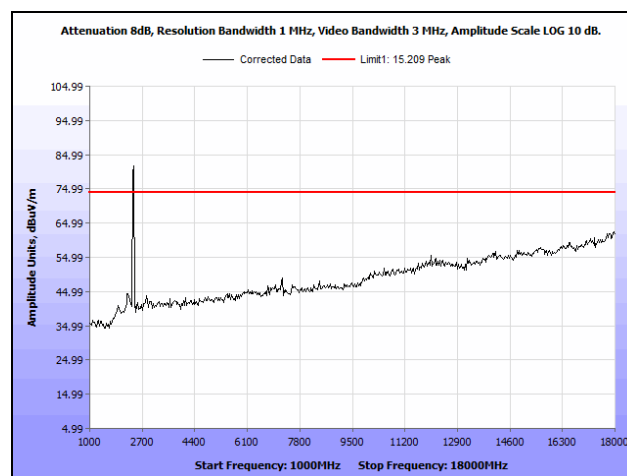
Radiated Spurious Emissions Test Results, 14 MHz, 6 dBi Antenna



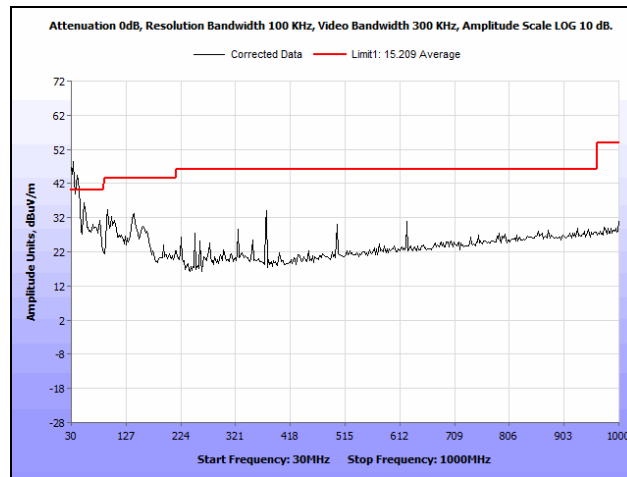
Plot 201. Radiated Spurious Emissions, Low Channel, 14 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



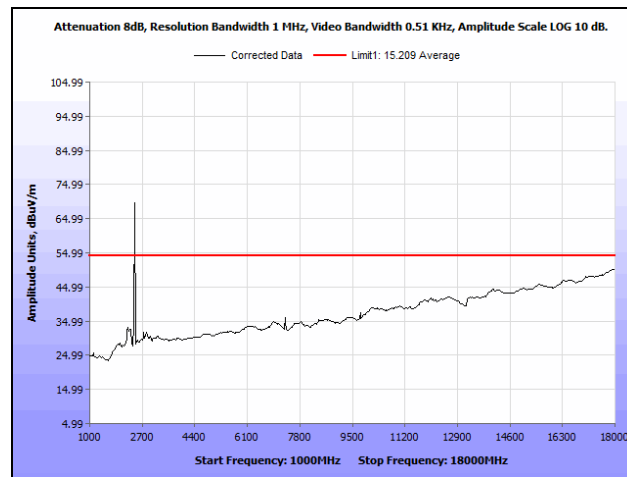
Plot 202. Radiated Spurious Emissions, Low Channel, 14 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



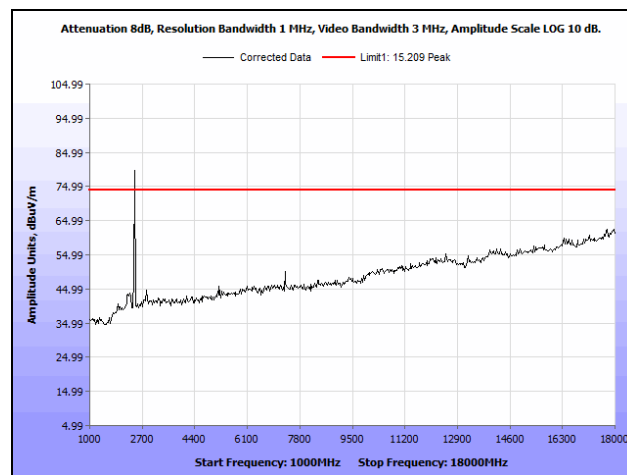
Plot 203. Radiated Spurious Emissions, Low Channel, 14 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



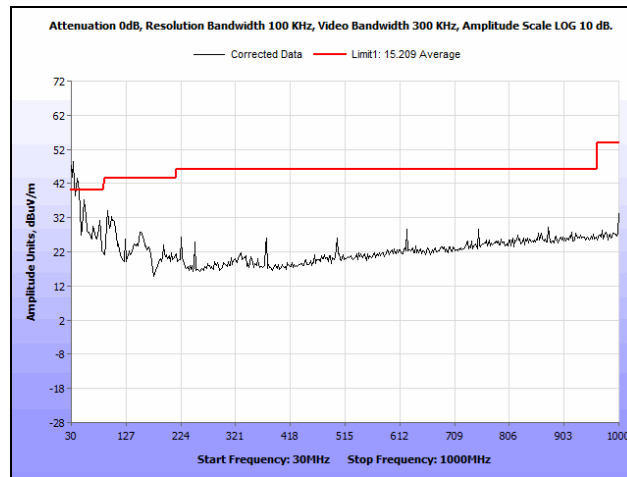
Plot 204. Radiated Spurious Emissions, Mid Channel, 14 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



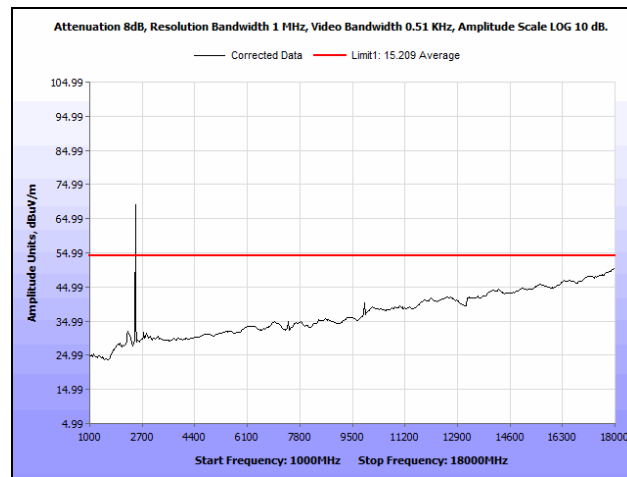
Plot 205. Radiated Spurious Emissions, Mid Channel, 14 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



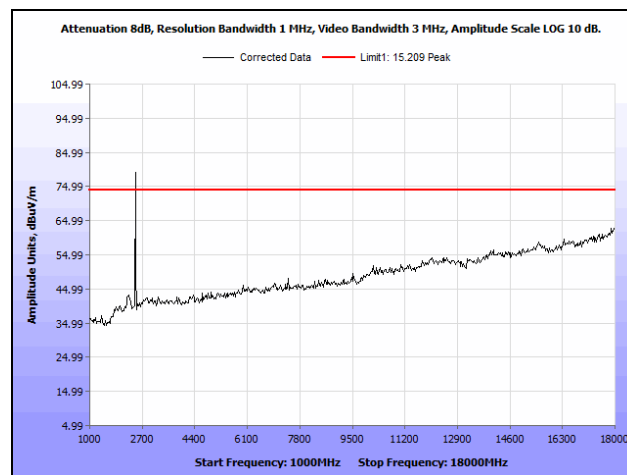
Plot 206. Radiated Spurious Emissions, Mid Channel, 14 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 207. Radiated Spurious Emissions, High Channel, 14 MHz, 6 dBi Antenna, 30 MHz - 1 GHz

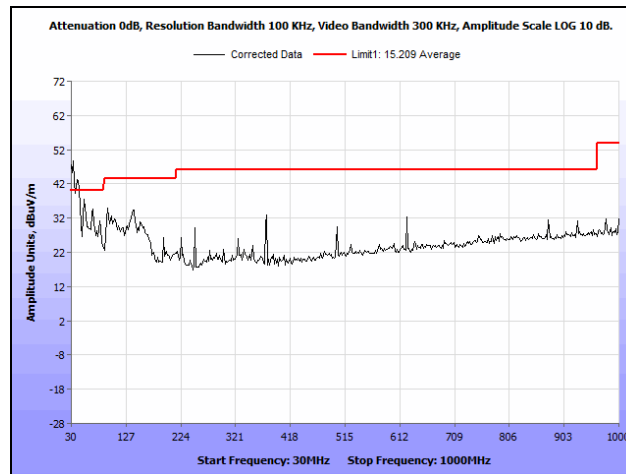


Plot 208. Radiated Spurious Emissions, High Channel, 14 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average

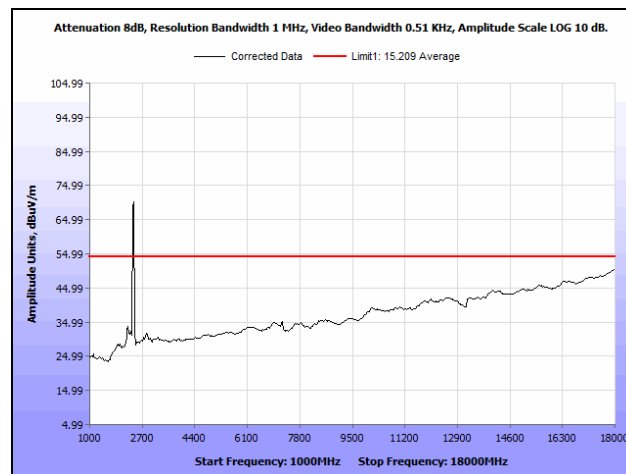


Plot 209. Radiated Spurious Emissions, High Channel, 14 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak

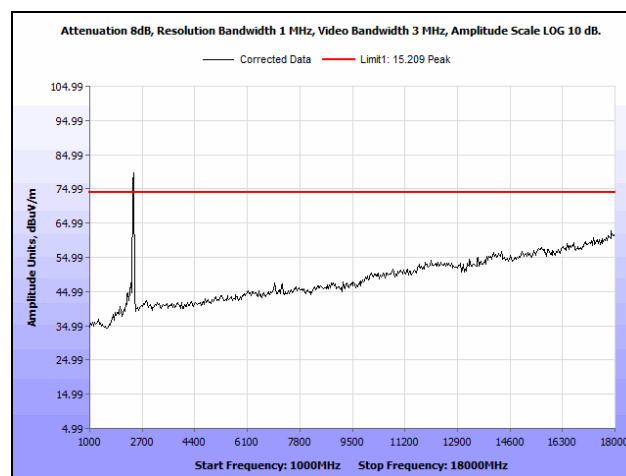
Radiated Spurious Emissions Test Results, 20 MHz, 6 dBi Antenna



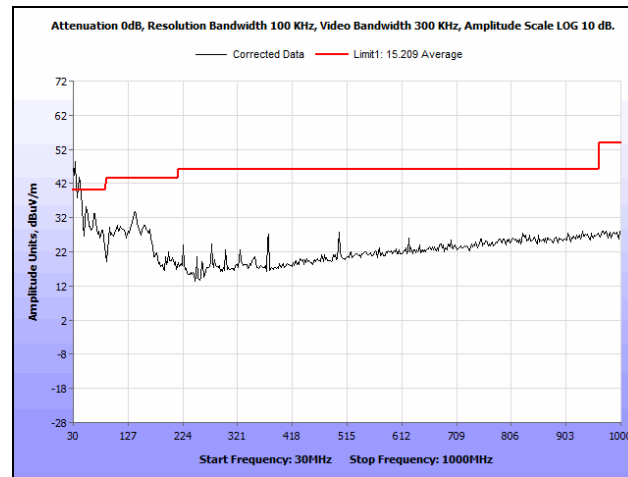
Plot 210. Radiated Spurious Emissions, Low Channel, 20 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



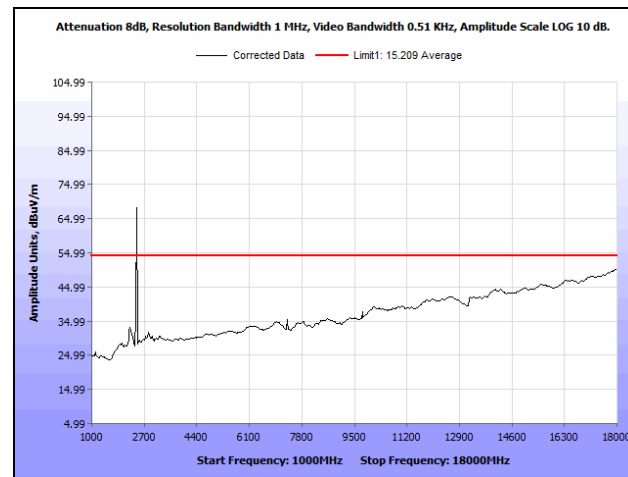
Plot 211. Radiated Spurious Emissions, Low Channel, 20 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



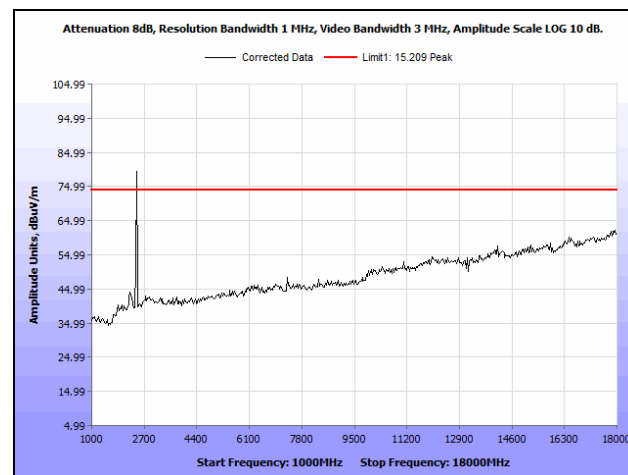
Plot 212. Radiated Spurious Emissions, Low Channel, 20 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



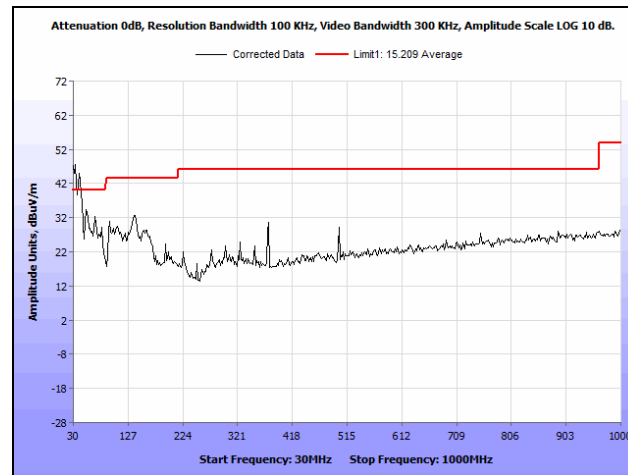
Plot 213. Radiated Spurious Emissions, Mid Channel, 20 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



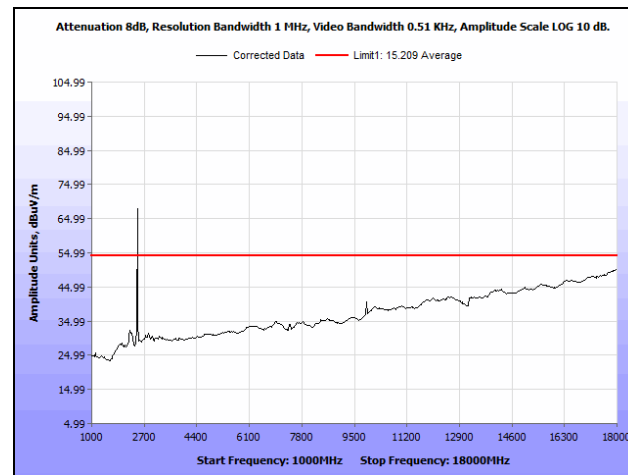
Plot 214. Radiated Spurious Emissions, Mid Channel, 20 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



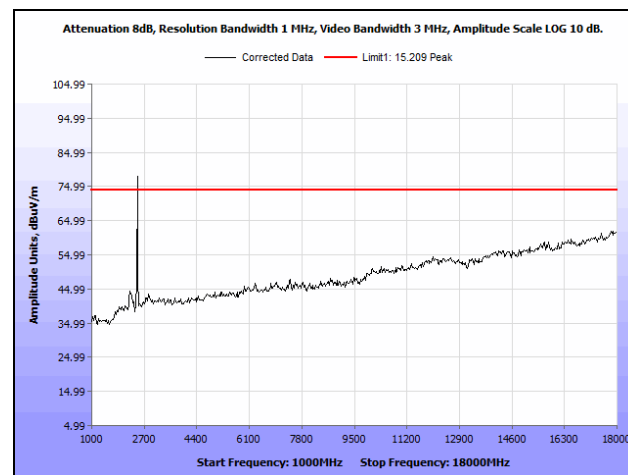
Plot 215. Radiated Spurious Emissions, Mid Channel, 20 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 216. Radiated Spurious Emissions, High Channel, 20 MHz, 6 dBi Antenna, 30 MHz - 1 GHz

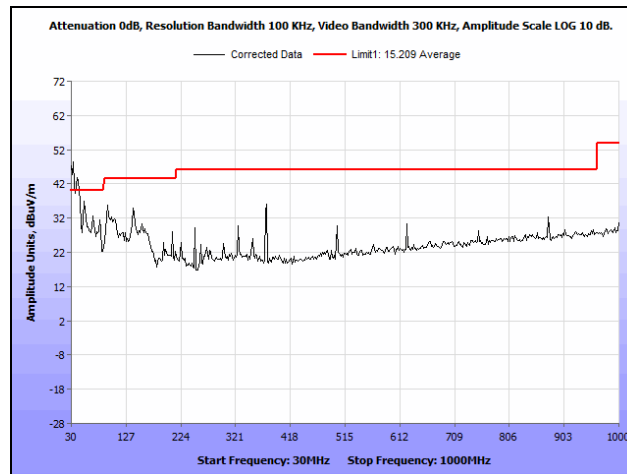


Plot 217. Radiated Spurious Emissions, High Channel, 20 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average

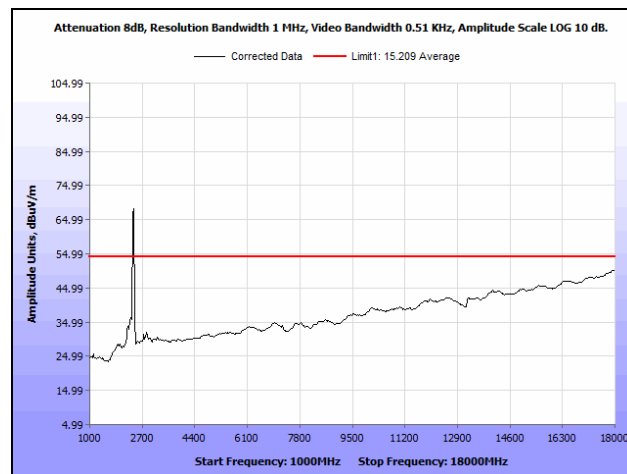


Plot 218. Radiated Spurious Emissions, High Channel, 20 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak

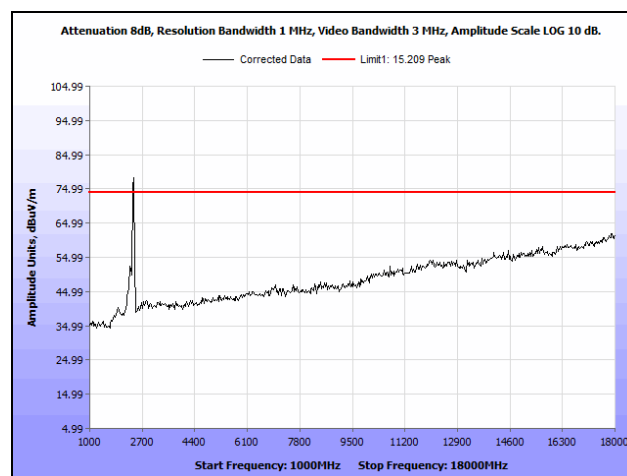
Radiated Spurious Emissions Test Results, 28 MHz, 6 dBi Antenna



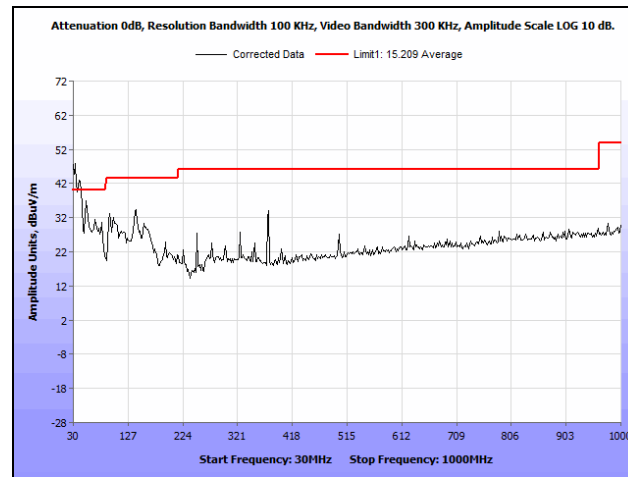
Plot 219. Radiated Spurious Emissions, Low Channel, 28 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



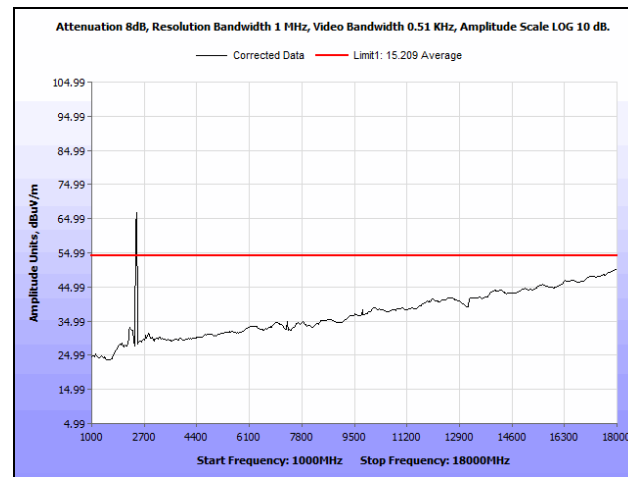
Plot 220. Radiated Spurious Emissions, Low Channel, 28 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



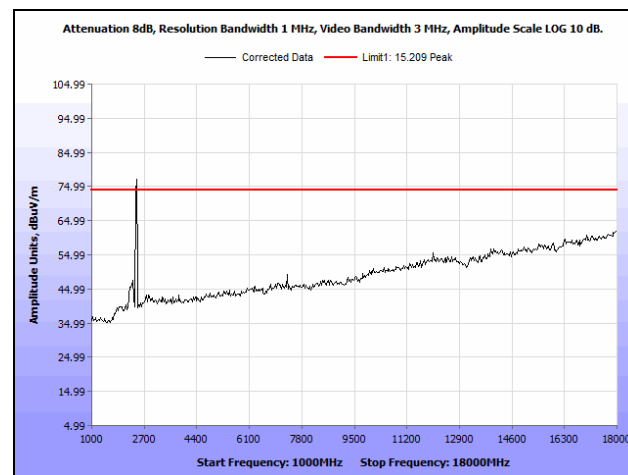
Plot 221. Radiated Spurious Emissions, Low Channel, 28 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



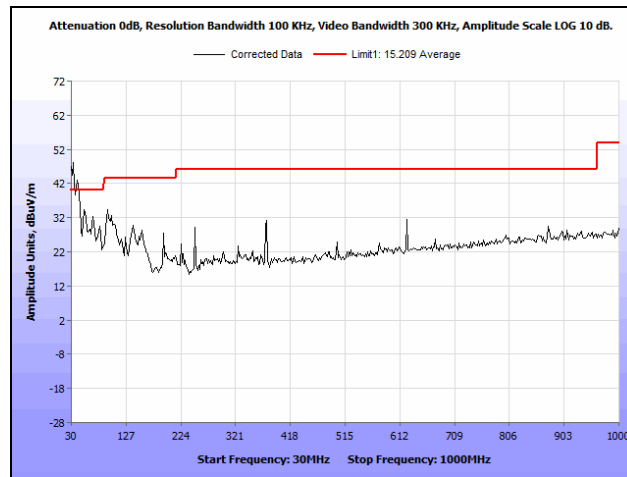
Plot 222. Radiated Spurious Emissions, Mid Channel, 28 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



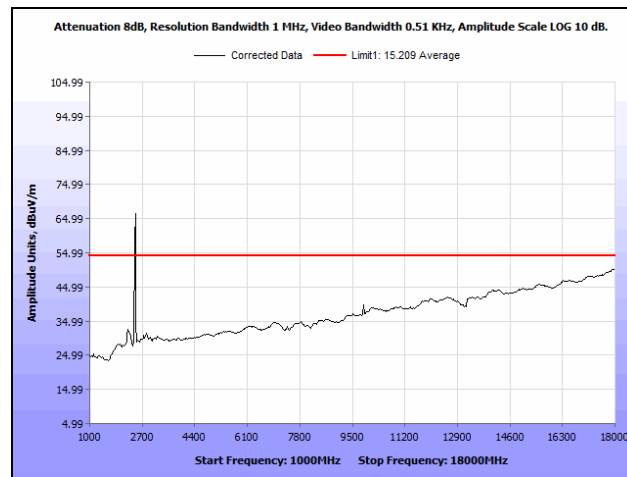
Plot 223. Radiated Spurious Emissions, Mid Channel, 28 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



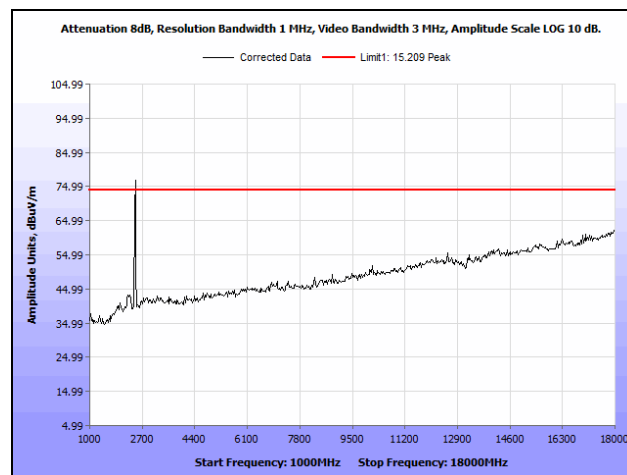
Plot 224. Radiated Spurious Emissions, Mid Channel, 28 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 225. Radiated Spurious Emissions, High Channel, 28 MHz, 6 dBi Antenna, 30 MHz - 1 GHz

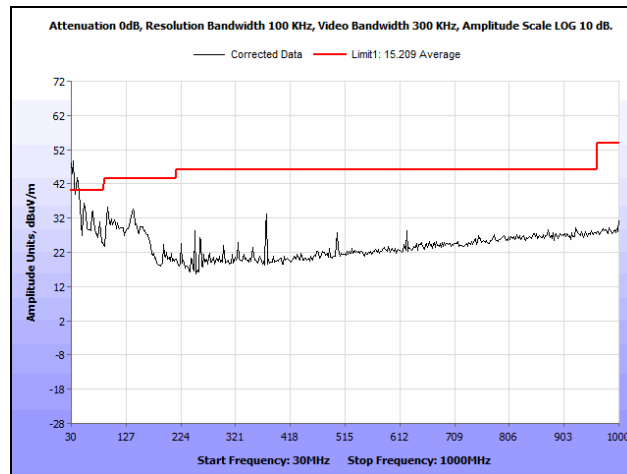


Plot 226. Radiated Spurious Emissions, High Channel, 28 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average

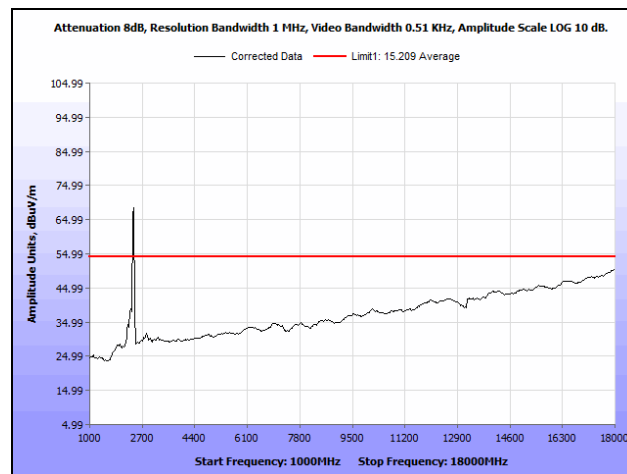


Plot 227. Radiated Spurious Emissions, High Channel, 28 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak

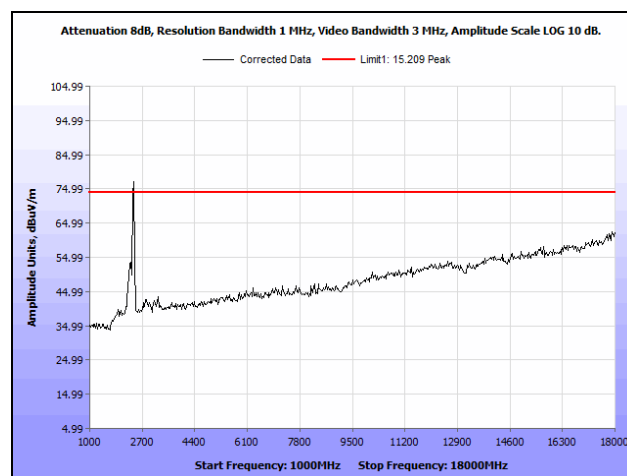
Radiated Spurious Emissions Test Results, 30 MHz, 6 dBi Antenna



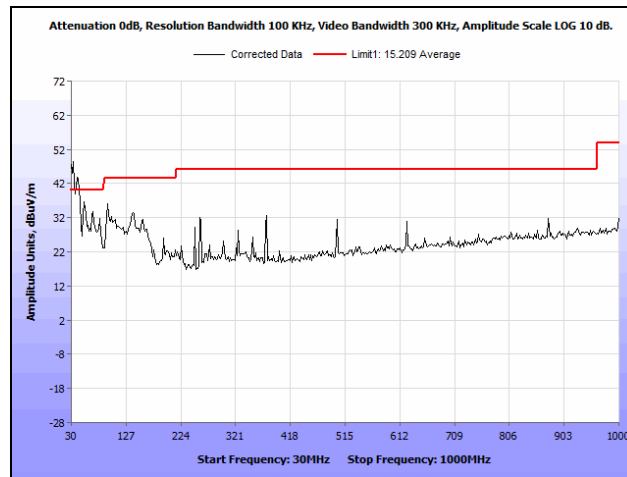
Plot 228. Radiated Spurious Emissions, Low Channel, 30 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



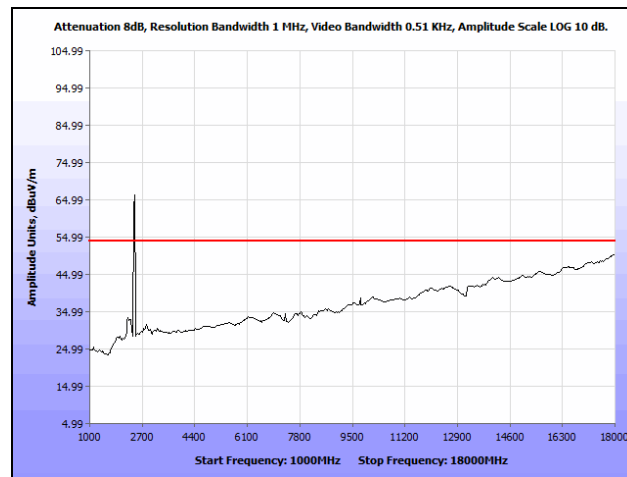
Plot 229. Radiated Spurious Emissions, Low Channel, 30 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



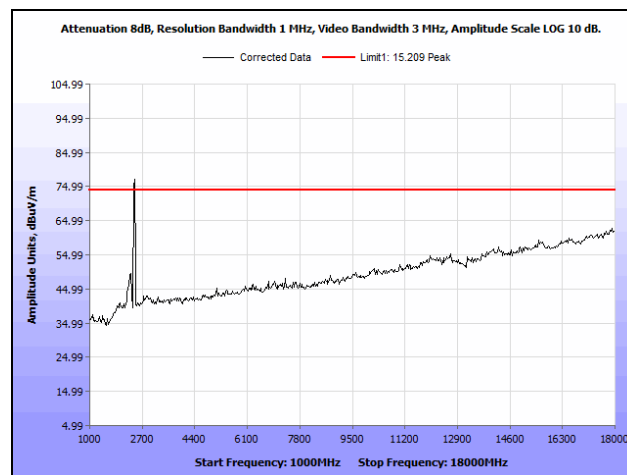
Plot 230. Radiated Spurious Emissions, Low Channel, 30 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



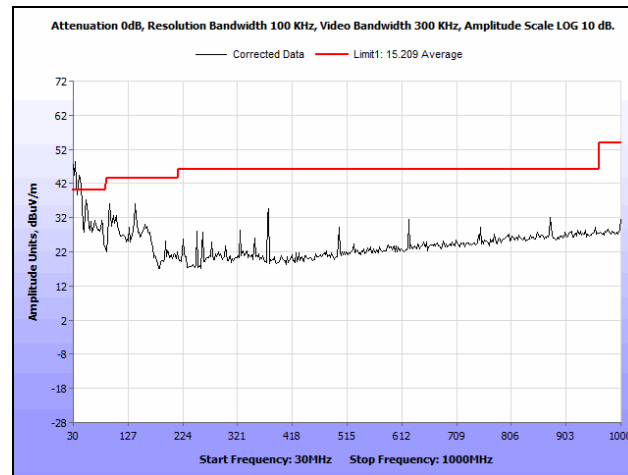
Plot 231. Radiated Spurious Emissions, Mid Channel, 30 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



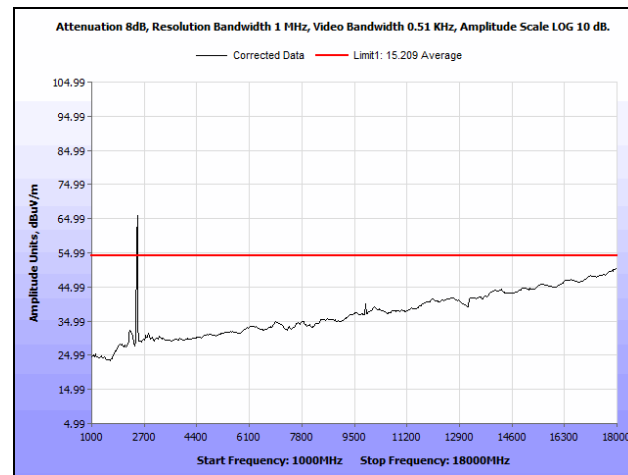
Plot 232. Radiated Spurious Emissions, Mid Channel, 30 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



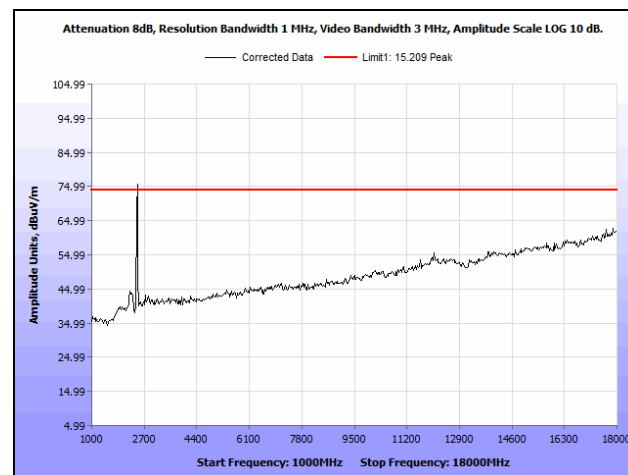
Plot 233. Radiated Spurious Emissions, Mid Channel, 30 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 234. Radiated Spurious Emissions, High Channel, 30 MHz, 6 dBi Antenna, 30 MHz - 1 GHz

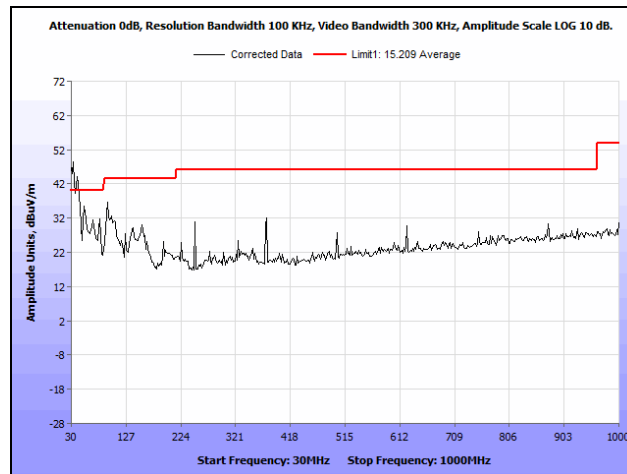


Plot 235. Radiated Spurious Emissions, High Channel, 30 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average

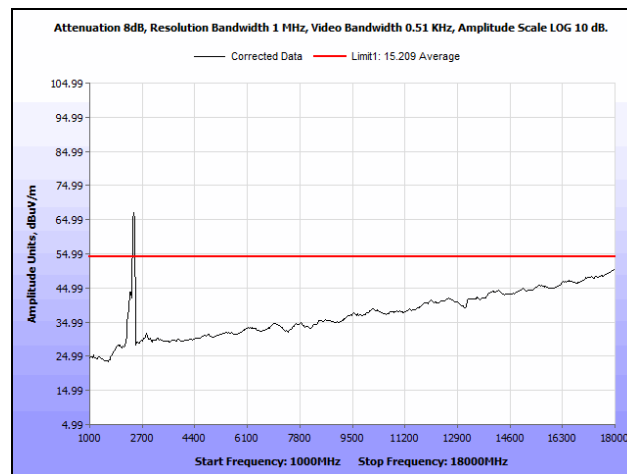


Plot 236. Radiated Spurious Emissions, High Channel, 30 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak

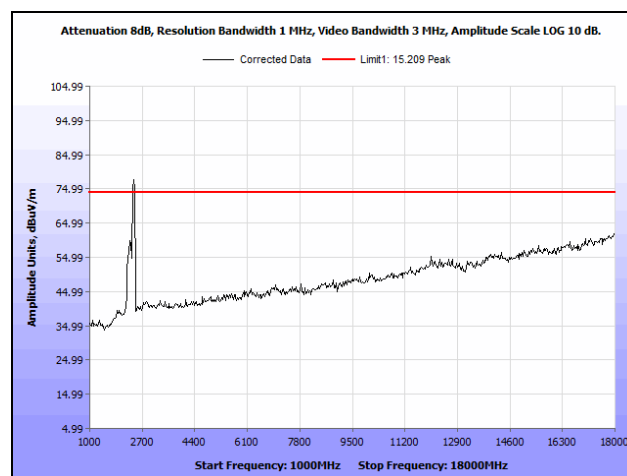
Radiated Spurious Emissions Test Results, 40 MHz, 6 dBi Antenna



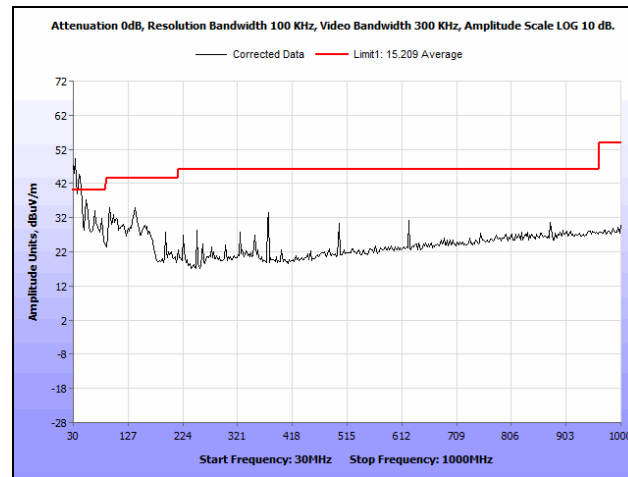
Plot 237. Radiated Spurious Emissions, Low Channel, 40 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



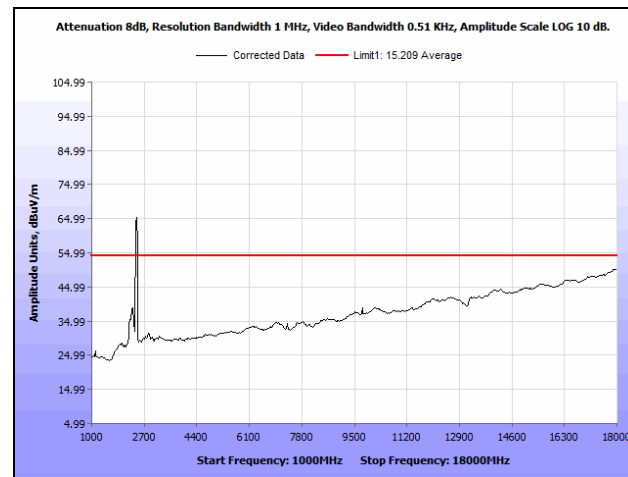
Plot 238. Radiated Spurious Emissions, Low Channel, 40 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



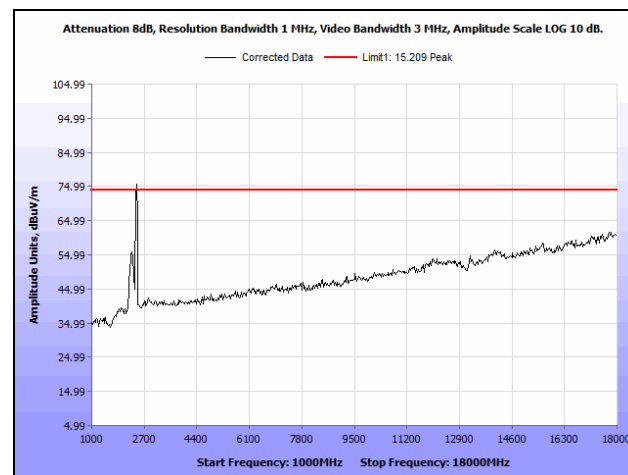
Plot 239. Radiated Spurious Emissions, Low Channel, 40 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



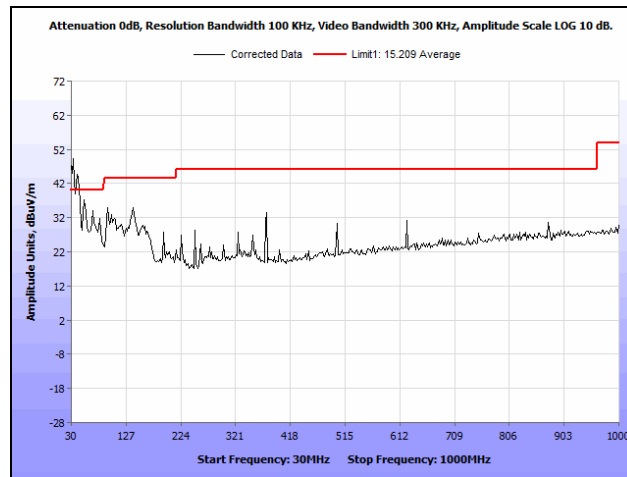
Plot 240. Radiated Spurious Emissions, Mid Channel, 40 MHz, 6 dBi Antenna, 30 MHz - 1 GHz



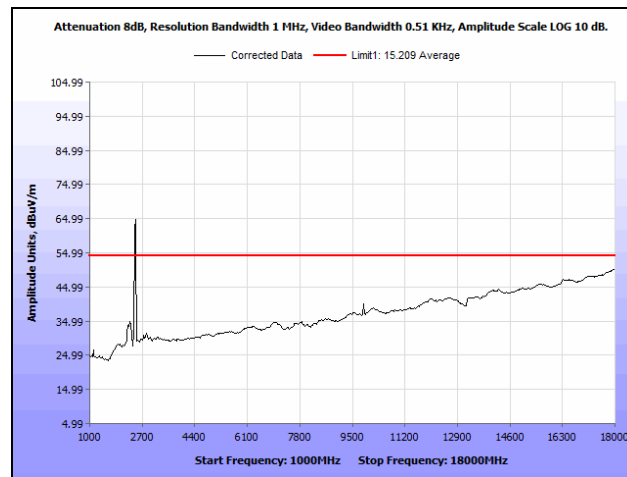
Plot 241. Radiated Spurious Emissions, Mid Channel, 40 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average



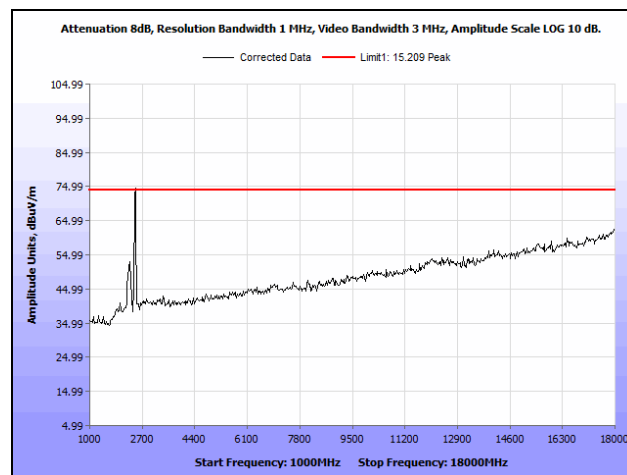
Plot 242. Radiated Spurious Emissions, Mid Channel, 40 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 243. Radiated Spurious Emissions, High Channel, 40 MHz, 6 dBi Antenna, 30 MHz - 1 GHz

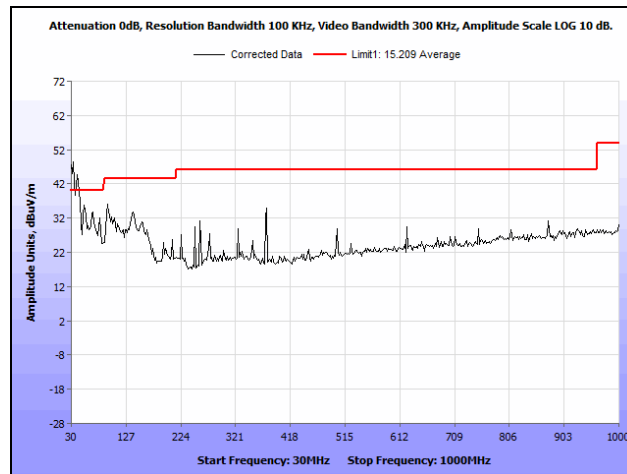


Plot 244. Radiated Spurious Emissions, High Channel, 40 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Average

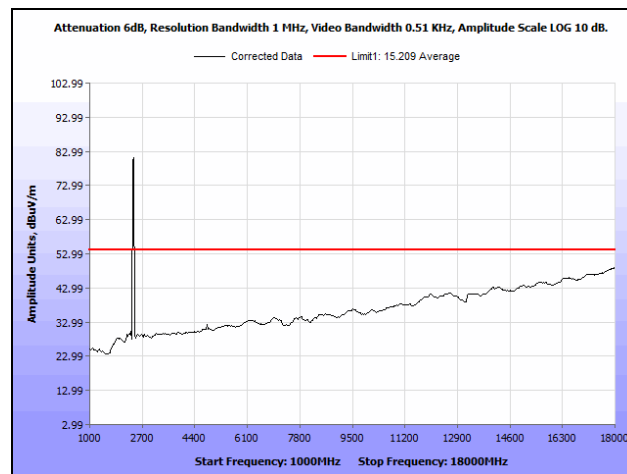


Plot 245. Radiated Spurious Emissions, High Channel, 40 MHz, 6 dBi Antenna, 1 GHz - 18 GHz, Peak

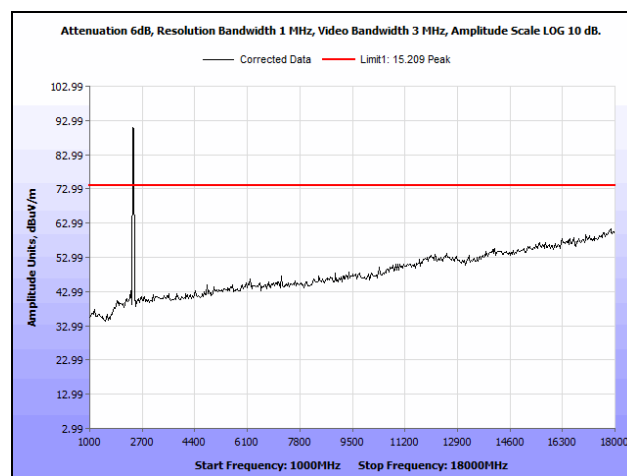
Radiated Spurious Emissions Test Results, 3.5 MHz, 24 dBi Antenna



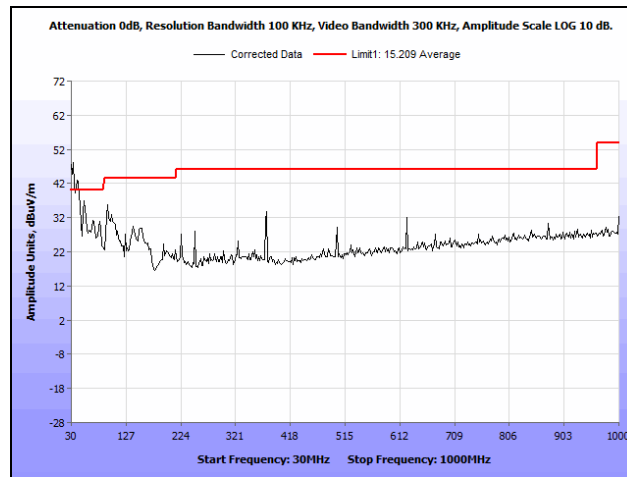
Plot 246. Radiated Spurious Emissions, Low Channel, 3.5 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



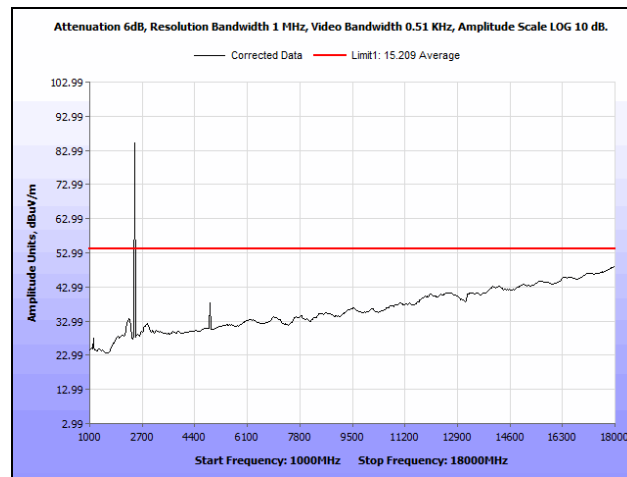
Plot 247. Radiated Spurious Emissions, Low Channel, 3.5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



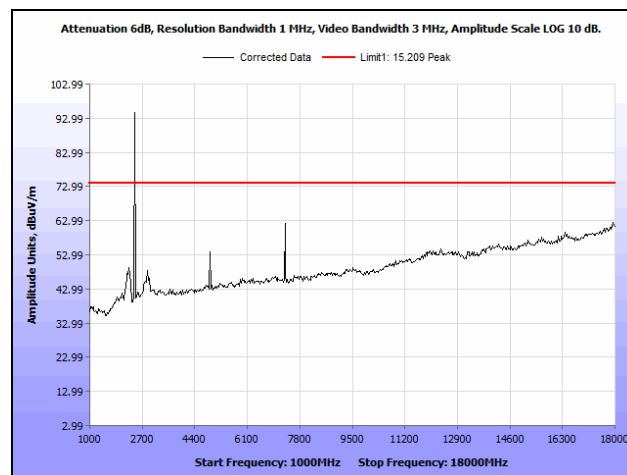
Plot 248. Radiated Spurious Emissions, Low Channel, 3.5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



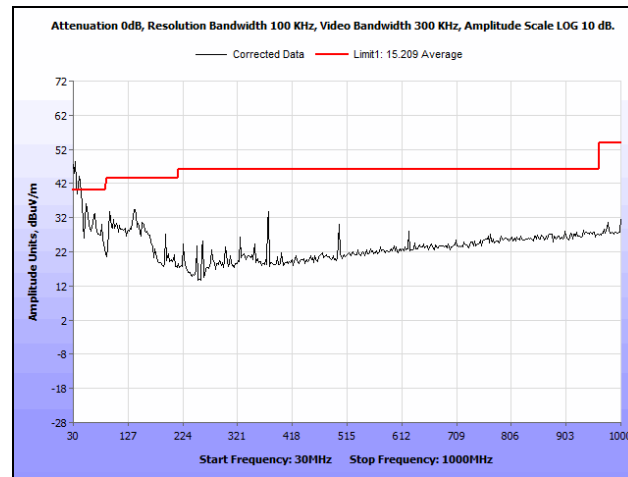
Plot 249. Radiated Spurious Emissions, Mid Channel, 3.5 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



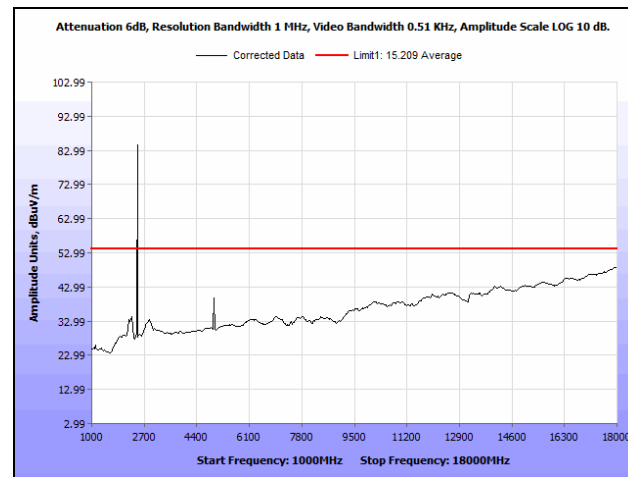
Plot 250. Radiated Spurious Emissions, Mid Channel, 3.5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



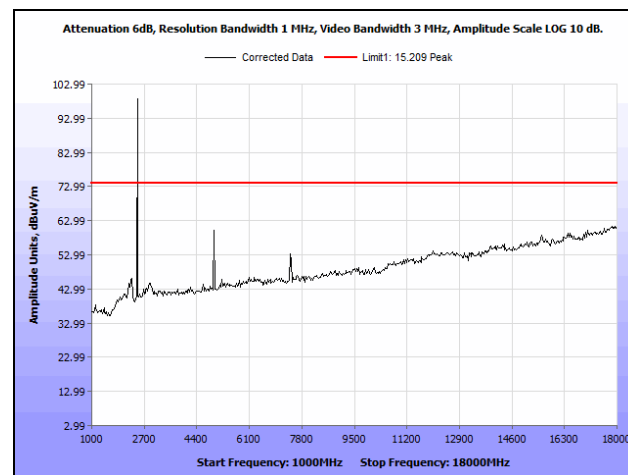
Plot 251. Radiated Spurious Emissions, Mid Channel, 3.5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 252. Radiated Spurious Emissions, High Channel, 3.5 MHz, 24 dBi Antenna, 30 MHz - 1 GHz

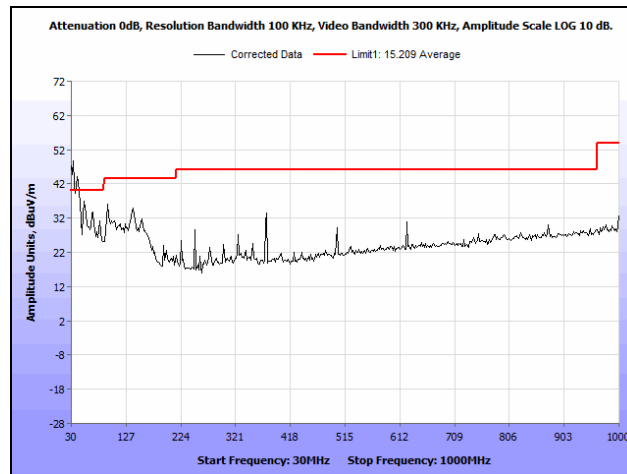


Plot 253. Radiated Spurious Emissions, High Channel, 3.5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average

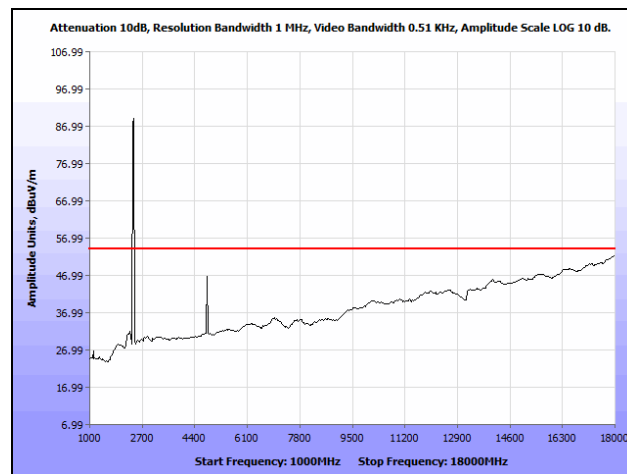


Plot 254. Radiated Spurious Emissions, High Channel, 3.5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak

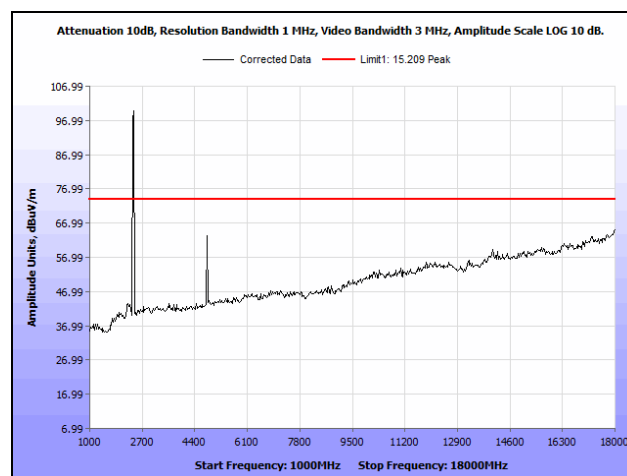
Radiated Spurious Emissions Test Results, 5 MHz, 24 dBi Antenna



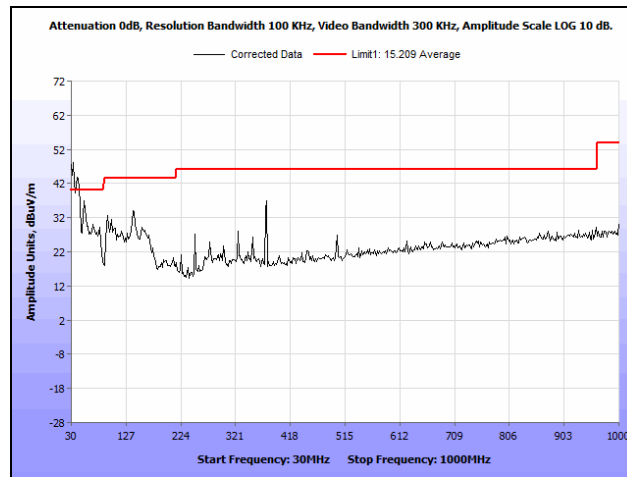
Plot 255. Radiated Spurious Emissions, Low Channel, 5 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



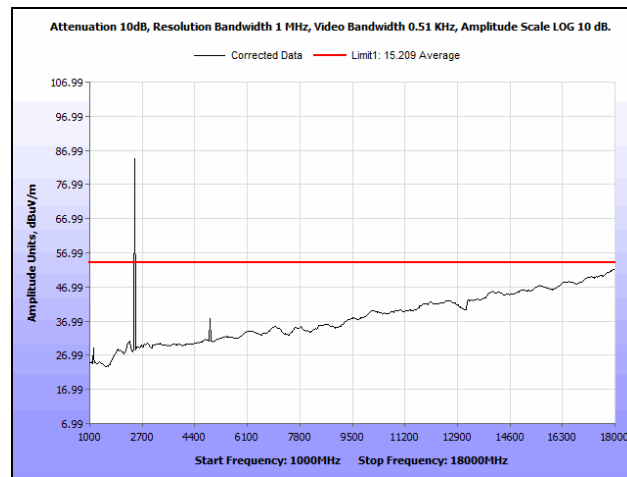
Plot 256. Radiated Spurious Emissions, Low Channel, 5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



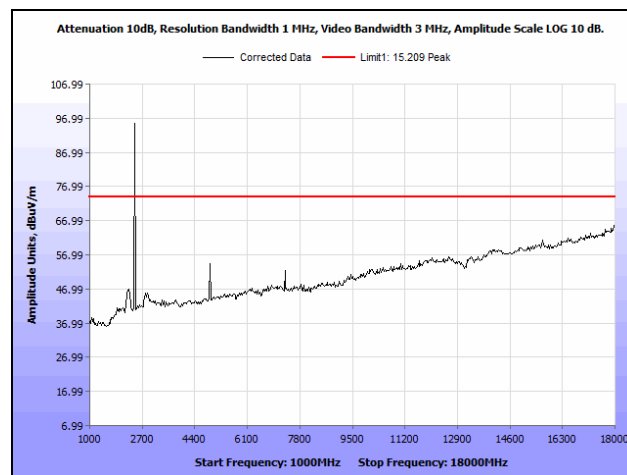
Plot 257. Radiated Spurious Emissions, Low Channel, 5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



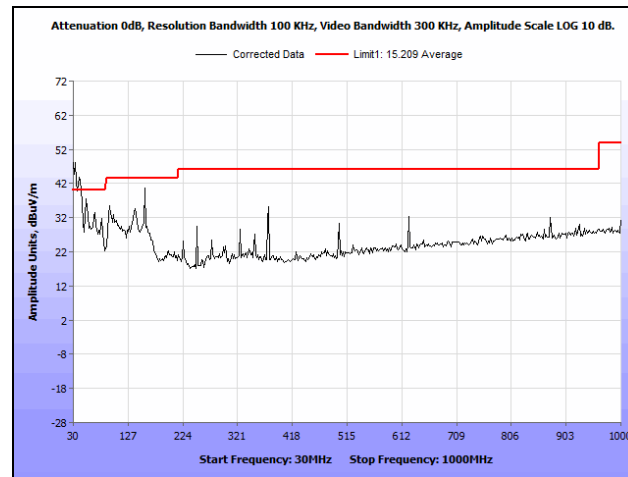
Plot 258. Radiated Spurious Emissions, Mid Channel, 5 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



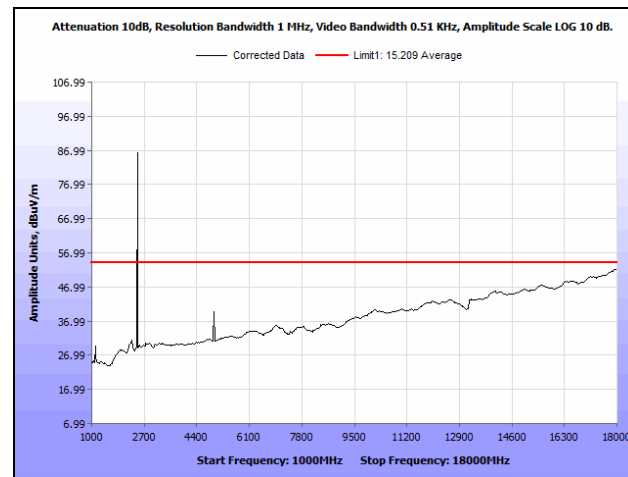
Plot 259. Radiated Spurious Emissions, Mid Channel, 5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



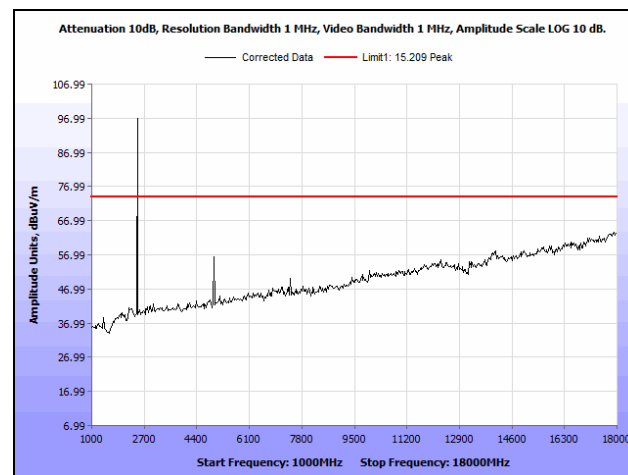
Plot 260. Radiated Spurious Emissions, Mid Channel, 5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 261. Radiated Spurious Emissions, High Channel, 5 MHz, 24 dBi Antenna, 30 MHz - 1 GHz

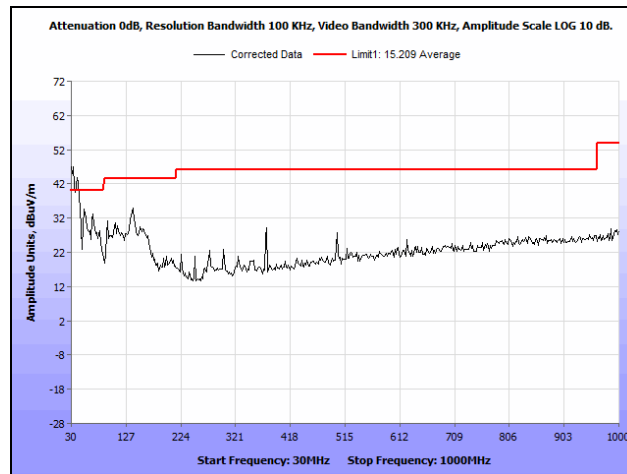


Plot 262. Radiated Spurious Emissions, High Channel, 5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average

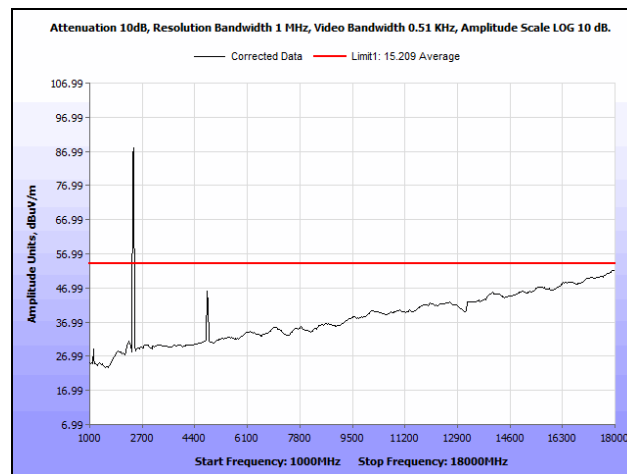


Plot 263. Radiated Spurious Emissions, High Channel, 5 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak

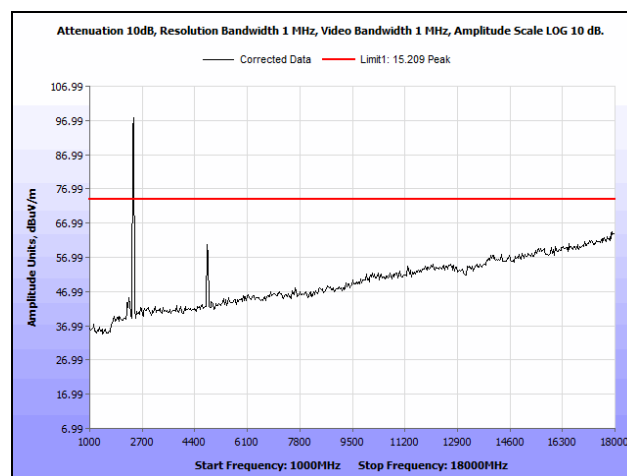
Radiated Spurious Emissions Test Results, 7 MHz, 24 dBi Antenna



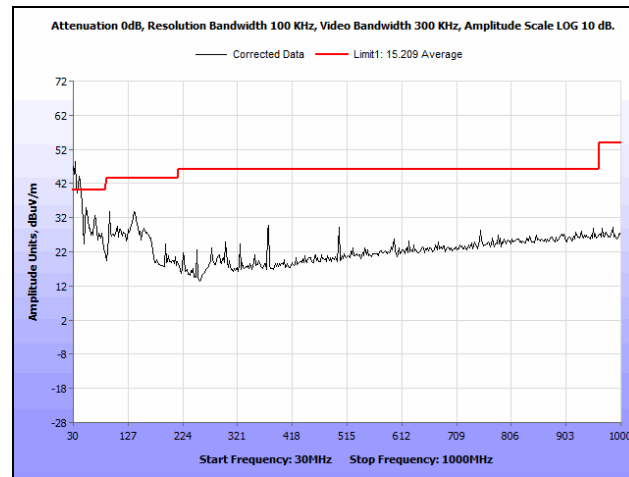
Plot 264. Radiated Spurious Emissions, Low Channel, 7 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



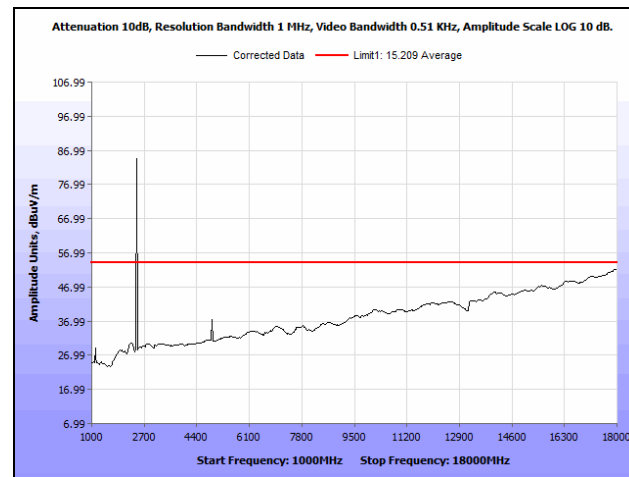
Plot 265. Radiated Spurious Emissions, Low Channel, 7 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



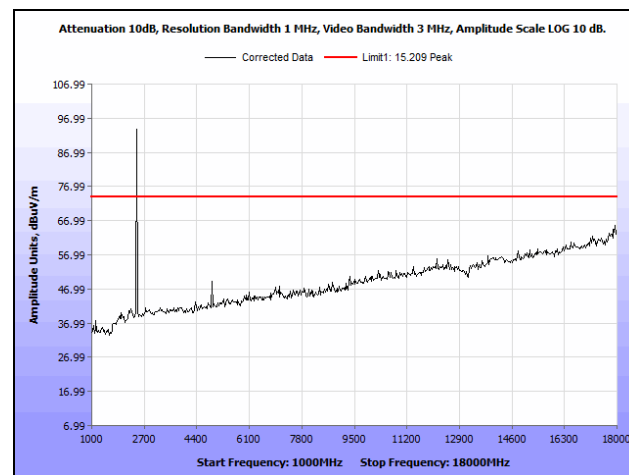
Plot 266. Radiated Spurious Emissions, Low Channel, 7 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



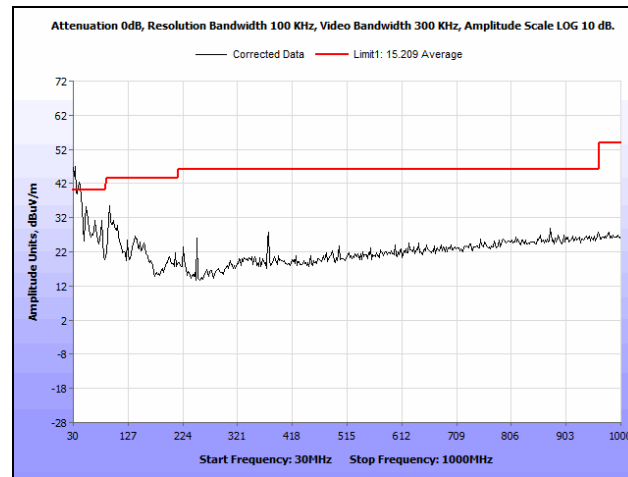
Plot 267. Radiated Spurious Emissions, Mid Channel, 7 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



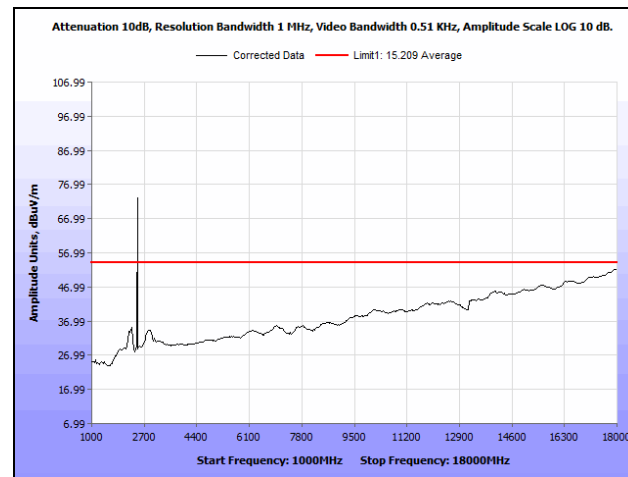
Plot 268. Radiated Spurious Emissions, Mid Channel, 7 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



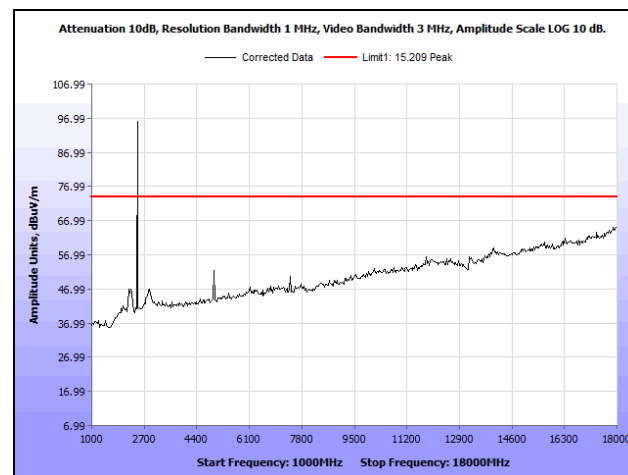
Plot 269. Radiated Spurious Emissions, Mid Channel, 7 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 270. Radiated Spurious Emissions, High Channel, 7 MHz, 24 dBi Antenna, 30 MHz - 1 GHz

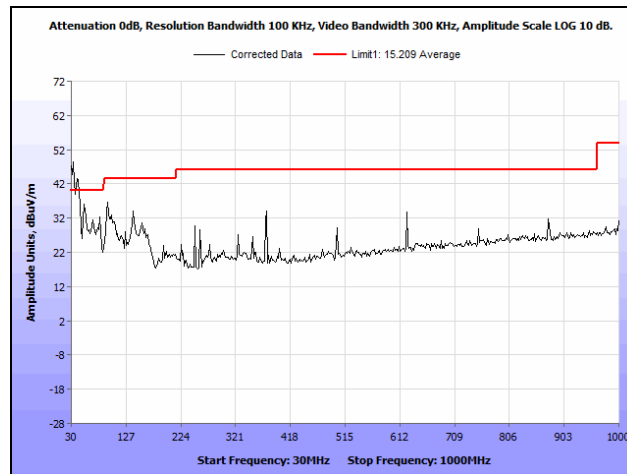


Plot 271. Radiated Spurious Emissions, High Channel, 7 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average

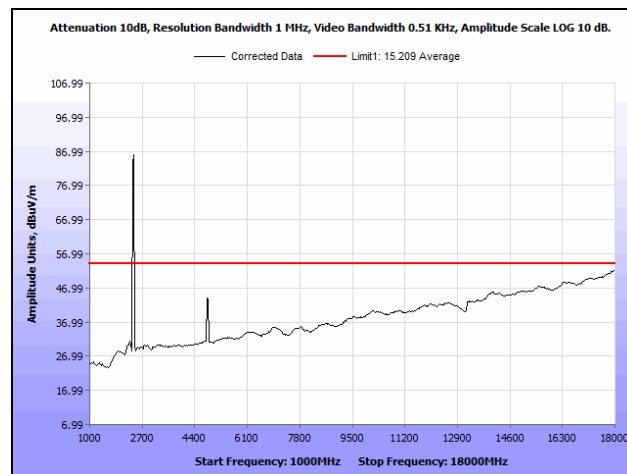


Plot 272. Radiated Spurious Emissions, High Channel, 7 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak

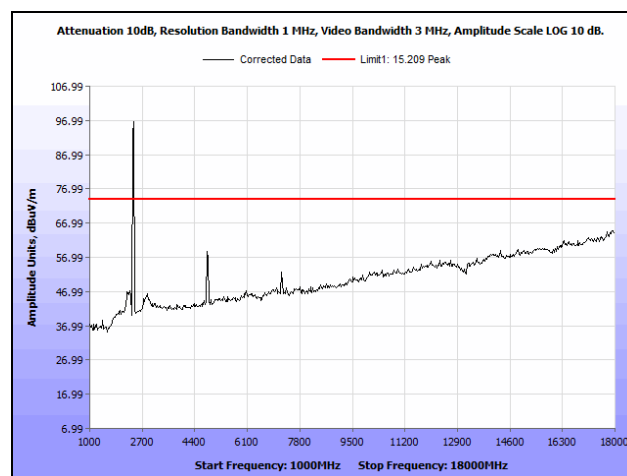
Radiated Spurious Emissions Test Results, 10 MHz, 24 dBi Antenna



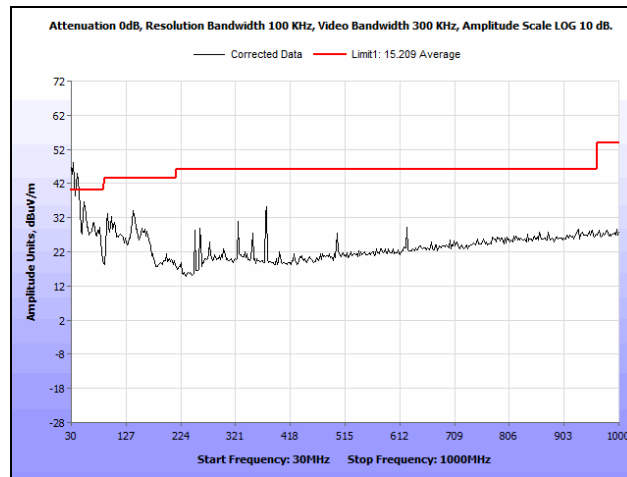
Plot 273. Radiated Spurious Emissions, Low Channel, 10 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



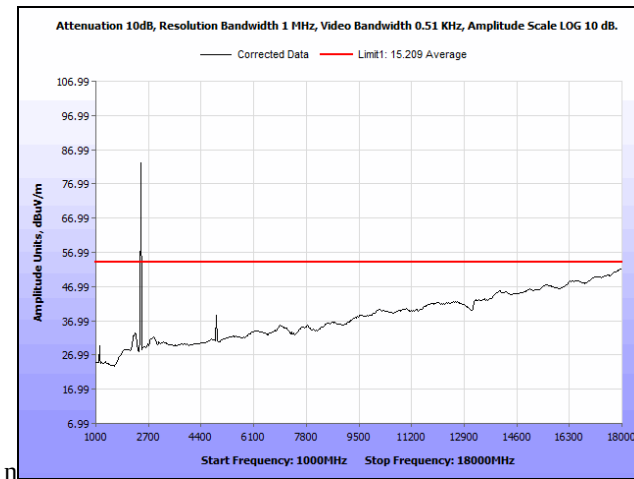
Plot 274. Radiated Spurious Emissions, Low Channel, 10 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



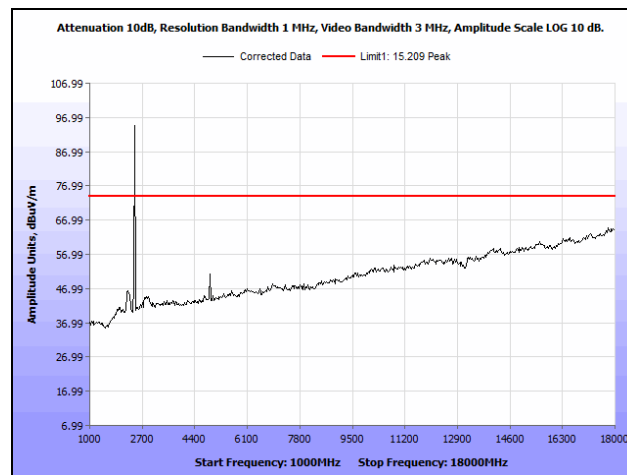
Plot 275. Radiated Spurious Emissions, Low Channel, 10 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



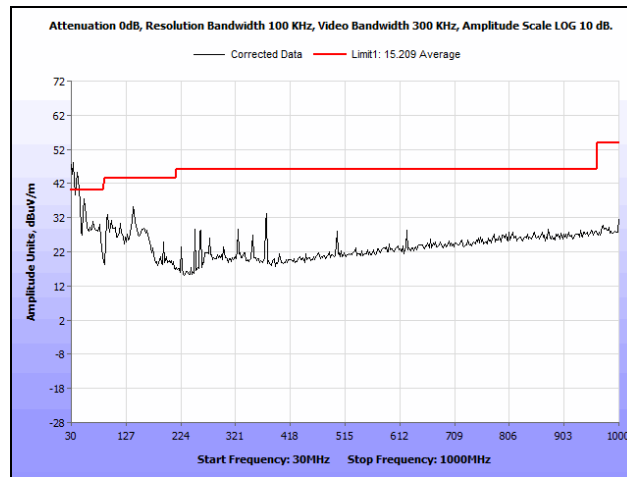
Plot 276. Radiated Spurious Emissions, Mid Channel, 10 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



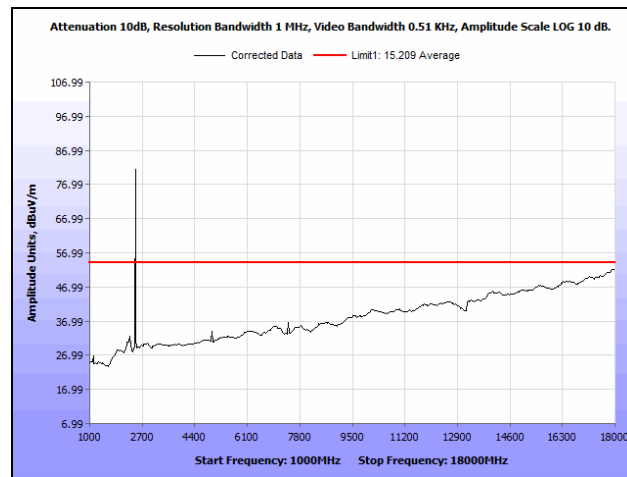
Plot 277. Radiated Spurious Emissions, Mid Channel, 10 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



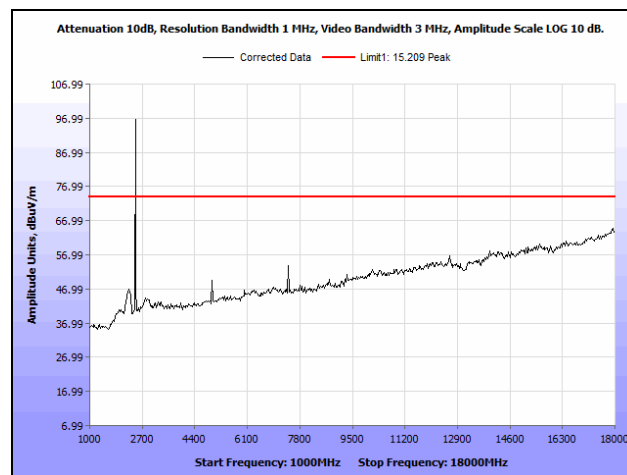
Plot 278. Radiated Spurious Emissions, Mid Channel, 10 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 279. Radiated Spurious Emissions, High Channel, 10 MHz, 24 dBi Antenna, 30 MHz - 1 GHz

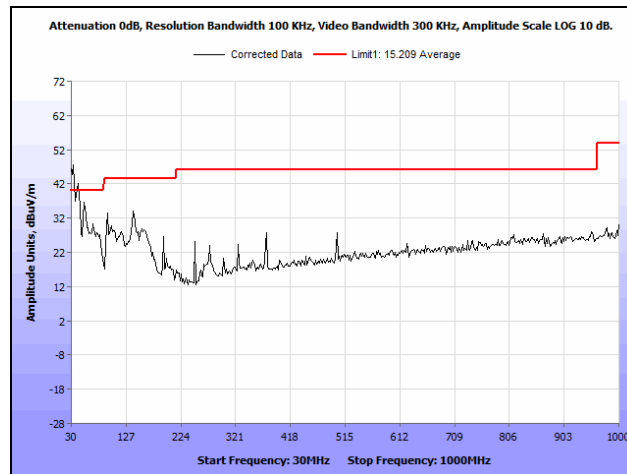


Plot 280. Radiated Spurious Emissions, High Channel, 10 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average

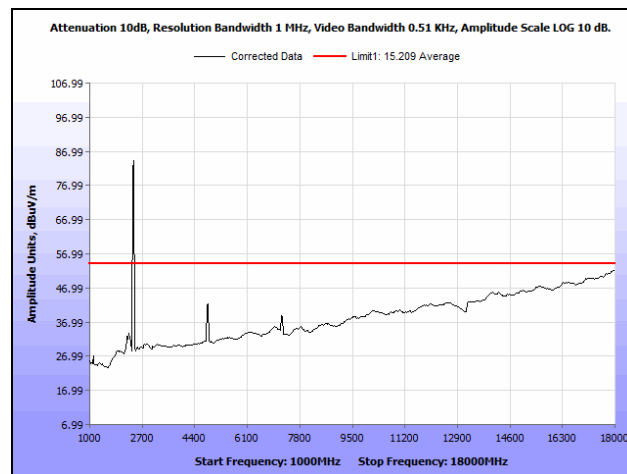


Plot 281. Radiated Spurious Emissions, High Channel, 10 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak

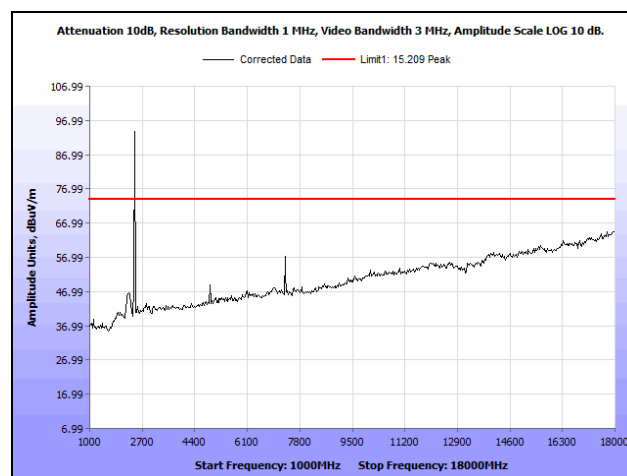
Radiated Spurious Emissions Test Results, 14 MHz, 24 dBi Antenna



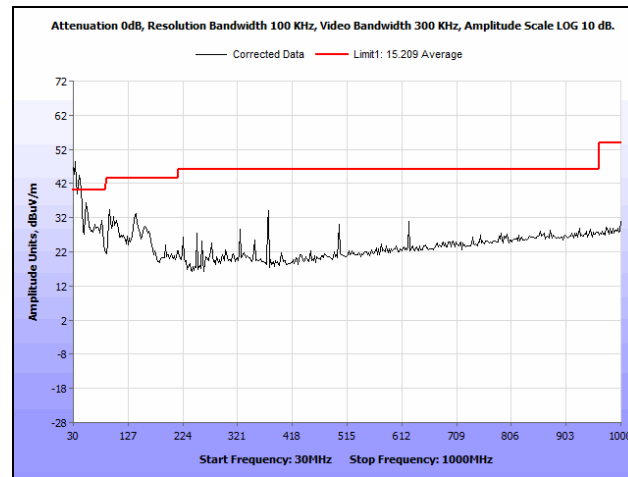
Plot 282. Radiated Spurious Emissions, Low Channel, 14 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



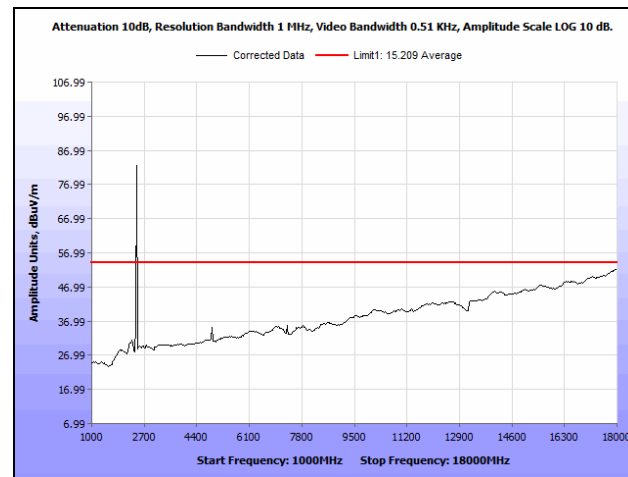
Plot 283. Radiated Spurious Emissions, Low Channel, 14 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



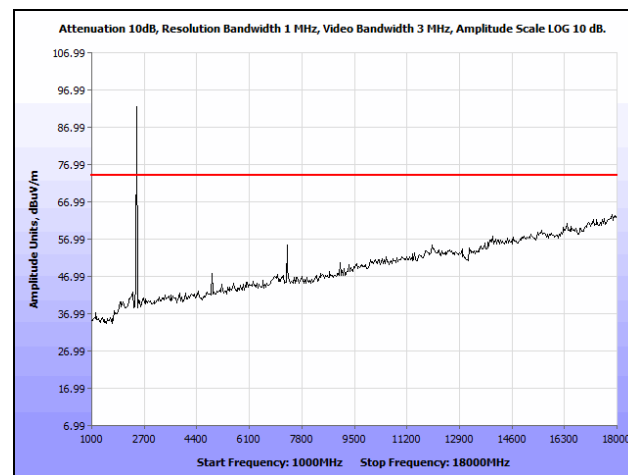
Plot 284. Radiated Spurious Emissions, Low Channel, 14 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



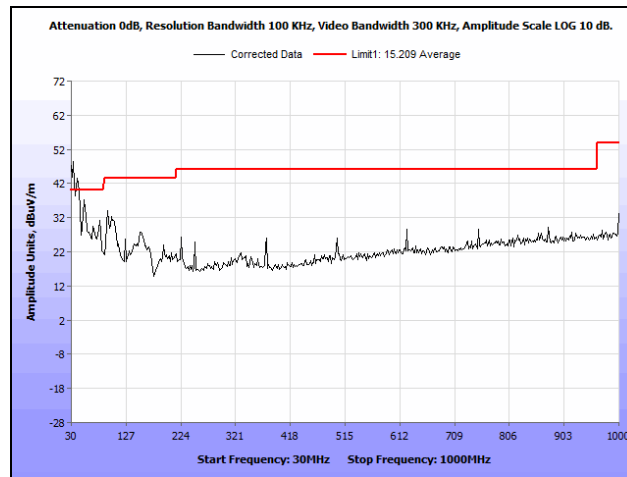
Plot 285. Radiated Spurious Emissions, Mid Channel, 14 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



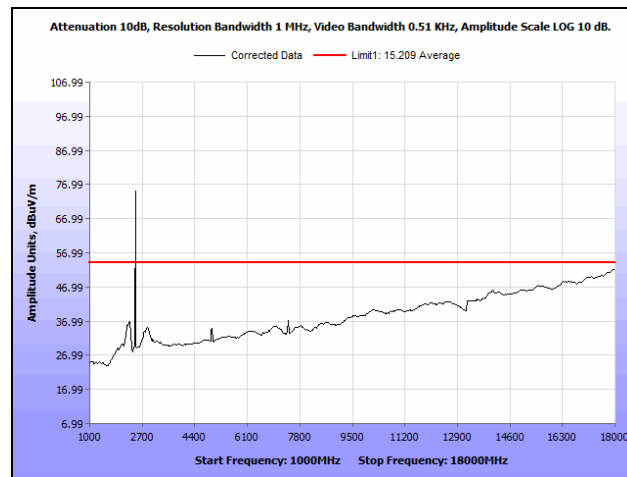
Plot 286. Radiated Spurious Emissions, Mid Channel, 14 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



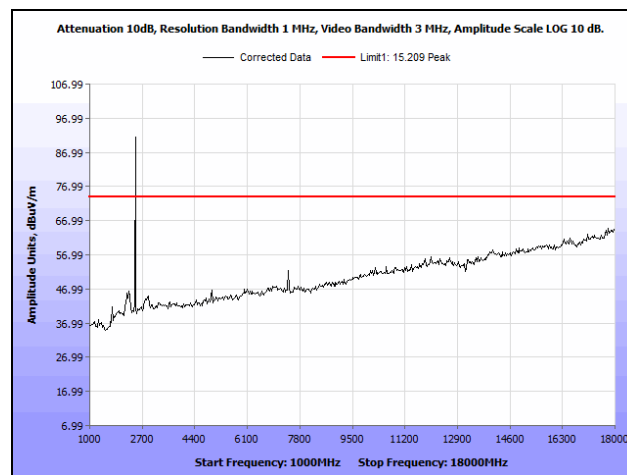
Plot 287. Radiated Spurious Emissions, Mid Channel, 14 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 288. Radiated Spurious Emissions, High Channel, 14 MHz, 24 dBi Antenna, 30 MHz - 1 GHz

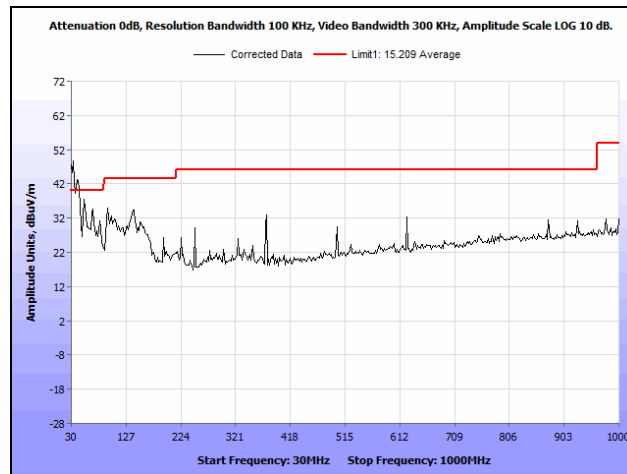


Plot 289. Radiated Spurious Emissions, High Channel, 14 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average

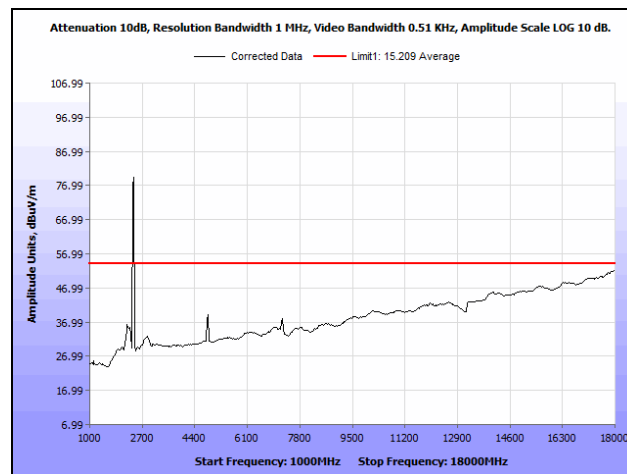


Plot 290. Radiated Spurious Emissions, High Channel, 14 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak

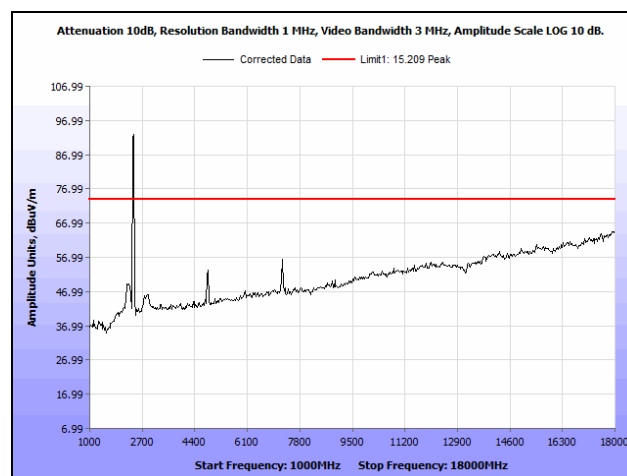
Radiated Spurious Emissions Test Results, 20 MHz, 24 dBi Antenna



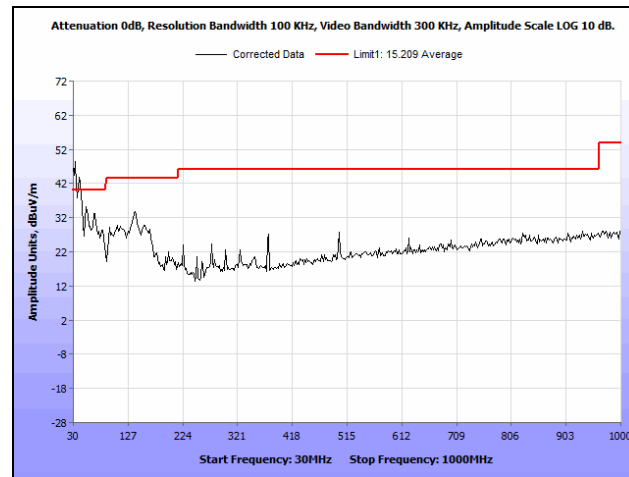
Plot 291. Radiated Spurious Emissions, Low Channel, 20 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



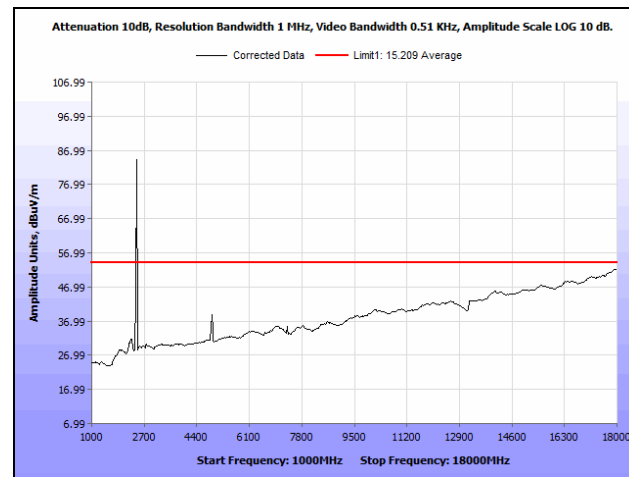
Plot 292. Radiated Spurious Emissions, Low Channel, 20 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



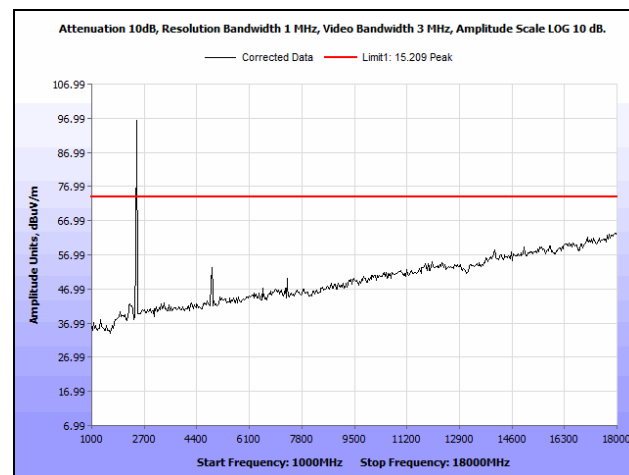
Plot 293. Radiated Spurious Emissions, Low Channel, 20 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak



Plot 294. Radiated Spurious Emissions, Mid Channel, 20 MHz, 24 dBi Antenna, 30 MHz - 1 GHz



Plot 295. Radiated Spurious Emissions, Mid Channel, 20 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Average



Plot 296. Radiated Spurious Emissions, Mid Channel, 20 MHz, 24 dBi Antenna, 1 GHz - 18 GHz, Peak